

DEDICATED TO FULFILLING THE GOVERNMENT'S NEEDS

An SBA Certified Small Disadvantaged Business



Authorized FSS Schedule 70 Pricelist

Contract Period: February 27, 2013 to February 27, 2018

<u>SIN</u>	Description
132-8	Purchase of Equipment
132-12	Equipment Maintenance
132-51	Information Technology Services

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Futron Incorporated 14073 Crown Ct. Woodbridge, VA, 22193 www.futroninc.com



AUTHORIZED INFORMATION TECHNOLOGY SCHEDULE PRICELIST

FEDERAL SUPPLY SERVICE INFORMATION TECHNOLOGY SCHEDULE

GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT, SOFTWARE AND SERVICES

SPECIAL ITEM NUMBER (SIN) /Products/Services

- 132-8 Purchase of Equipment
- 132-12 Equipment Maintenance
- 132-51 Information Technology Services

SPECIAL ITEM NUMBER 132-8 - PURCHASE OF EQUIPMENT

FSC Class / Category Code

5995 - CABLE, CORD, AND WIRE ASSEMBLIES: COMMUNICATIONS EQUIPMENT Communication Equipment Cable I

6015 - FIBER OPTIC CABLE Fiber Optic Cable I

6145 - WIRE AND CABLE, ELECTRIC Coaxial Cable I

5805 -TELEPHONE AND TELEGRAPH EQUIPMENT Telephone and Telegraph Equipment X Audio and Video Teleconferencing Equipment.

7025 - INPUT/OUTPUT STORAGE DEVICES Network Equipment

5820 - RADIO AND TELEVISION COMMUNICATIONS EQUIPMENT, EXCEPT AIRBOURNE Satellite Communications Equipment

5810 -COMMUNICATIONS SECURITY EQUIPMENT AND COMPONENT Communication Security Equipment

SPECIAL ITEM NUMBER 132-12 - EQUIPMENT MAINTENANCE

FSC/PSC Class J070 - Maintenance and Repair Service)(Repair Parts/Spare Parts - See FSC Class for basic equipment) FSC/PSC Class J058 - Maintenance and Repair of Communication Equipment

SPECIAL ITEM NUMBER 132-51 - INFORMATION TECHNOLOGY SERVICES

FPDS Class / Category Code

D301 Resources and Facilities Management S

D302 Database Planning and Design S

D306 Systems Analysis and Design S

D307 Network Services S

D316 Network Services' Project Management S

Contractor:

Futron Incorporated 14073 Crown Court Woodbridge, VA 22193 (571)402-3200 Ext 104 www.futroninc.com

Contract Number: GS-35F-5400H

Period Covered By Contract: February 27, 2013 to February 27, 2018

General Services Administration Federal Supply Service



Products and ordering information in this Authorized Information Technology Schedule Pricelist is also available on the GSA Advantage! System. Agencies can browse GSA Advantage by accessing GSA's Advantage Home Page via Internet at www.gsaadvantage.gov. **TABLE OF CONTENTS**

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INFORMATION FOR ORDERING OFFICES

SPECIAL NOTICE TO AGENCIES:

Small Business Participation

SBA strongly supports the participation of small business concerns in the Federal Supply Schedules Program. To enhance Small Business Participation SBA allows agencies to include in their procurement base and goals, the dollar value of orders expected to be placed against the Federal Supply Schedules, and to report accomplishments against these goals.

For Orders exceeding the micro-purchase threshold, FAR 8.404 requires agencies to consider the catalogs/pricelists of at least three schedule contractors or consider reasonably available information using the GSA Advantage! TM on-line shopping service (www.fss.gsa.gov). The catalogs/pricelists, GSA Advantage! TM and the Federal Supply Service Home Page (www.fss.gsa.gov) contain information on a broad array of products and services offered by small business concerns.

This information should be used as a tool to assist ordering activities in meeting or exceeding established small business goals. It should also be used as a tool to assist in including small, small disadvantaged, and women-owned small businesses among those considered when selecting pricelists for a best value determination.

For orders exceeding the micro-purchase threshold, customers are to give preference to small business concerns when two or more items at the same delivered price will satisfy their requirement.

1. **GEOGRAPHIC SCOPE OF CONTRACT:** The geographic scope of this contract is the 48 contiguous states; the District of Columbia, Alaska, Hawaii, the Commonwealth of Puerto Rico, and such OCONUS locations as may be agreed to between the Contractor and the Government. The geographic scope is the same for all items offered under this contract.

2. CONTRACTOR ORDERING ADDRESS AND PAYMENT INFORMATION:

a. ORDERING ADDRESS.

Futron Incorporated 14073 Crown Court Woodbridge, VA 22193

b. PAYMENT ADDRESS.

Futron Incorporated 14073 Crown Court Woodbridge, VA 22193

c. **GOVERNMENT CREDIT CARDS.** Contractors are required to accept the Government purchase card for payments equal to or less than the micro-purchase threshold for oral or written delivery orders. Government credit cards will be acceptable for payment above the micro-purchase threshold. In addition, bank account information for wire transfer will be printed on the invoice.

d. TECHNICAL AND/OR ORDERING ASSISTANCE.

The following telephone number(s) can be used by ordering agencies to obtain technical and/or ordering assistance. 571-402-3200 x.154

3. LIABILITY FOR INJURY OR DAMAGE:

The Contractor shall not be liable for any injury to Government personnel or damage to Government property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the fault or negligence of the Contractor.

4. STATISTICAL DATA FOR GOVERNMENT ORDERING OFFICE COMPLETION OF STANDARD FORM 279:

Block 9: G (Order/Modification Under Federal Schedule).

Block 16: Contractor Establishment Code (DUNS) is 87-889-6687.

Block 30: Type of Contractor is (A) Small Disadvantaged Business.

Block 31: Woman-Owned Small Business (No).



Block 36: Contractor's Tax Identification Number (TIN) is 56-1897919.

a. CAGE CODE: 062H2.

5. F.O.B. POINT: Destination

6. **DELIVERY SCHEDULE:**

a. TIME OF DELIVERY. The Contractor shall deliver to destination within the number of calendar days after receipt of order (ARO), as set forth below.

b. EXPEDITED DELIVERY TIMES.

For those items that can be delivered quicker than the delivery times in paragraph (a), above, the offer is requested to insert below, a time (hours/days ARO) that delivery can be made when expedited delivery is requested.

- c. **OVERNIGHT AND 2-DAY DELIVERY TIMES.** When schedule customers require overnight or 2-day delivery, agencies are encouraged to contact the Contractor or Authorized Government Resellers for the purpose of obtaining accelerated delivery. The Contractor provides overnight and 2-day delivery times subject to the availability of product inventory. The Contractor shall pay for shipment, with freight prepaid and invoiced. Authorization must be included on the Government order for products.
- d. **URGENT REQUIREMENTS.** When the Federal Supply Schedule contract delivery period does not meet the bona fide urgent delivery requirements of an ordering agency, agencies are encouraged, if time permits, to contact the Contractor for the purpose of obtaining accelerated delivery. The Contractor shall reply to the inquiry within 3 workdays after receipt. (Telephonic replies shall be confirmed by the Contractor in writing.) If the Contractor offers an accelerated delivery time acceptable to the ordering agency, any order(s) placed pursuant to the agreed upon accelerated delivery time frame shall be delivered within this shorter delivery time and in accordance with all other terms and conditions of the contract.
- 7. **DISCOUNTS:** Prices shown are NET Prices; Basic Discounts have been deducted.
- a. **PROMPT PAYMENT.** Prompt payment is _0_ % _0_ days, Net 30 days from receipt of invoice or date of acceptance, whichever is later.
- b. QUANTITY. None
- c. DOLLAR VOLUME. None
- d. **GOVERNMENT EDUCATIONAL INSTITUTIONS.** Government Educational Institutions are offered the same discounts as all other Government customers.
- e. DISCOUNT FOR USE OF GOVERNMENT COMMERCIAL CREDIT CARD. None
- f. OTHER. None



g. PRICES. All prices shown herein are net Government prices unless otherwise indicated.

8. TRADE AGREEMENTS ACT OF 1979, AS AMENDED:

All items are U.S. made end products, designated end products, Caribbean Basin country end products, Canadian end products, or Mexican

end products as defined in the Trade Agreements Act of 1979, as amended.

9. STATEMENT CONCERNING AVAILABILITY OF EXPORT PACKING:

Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering offices, shall be responded to promptly by the Contractor.

10. SMALL REQUIREMENTS:

The minimum dollar value of an order for delivery to one destination is \$100.00.

- 11. MAXIMUM ORDER: (All dollar amounts are exclusive of any discount for prompt payment)
- a. **SPECIAL ITEM 132-8 PURCHASE OF EQUIPMENT.** The maximum dollar value per order will be \$500,000 for all equipment.
- b. **SPECIAL ITEM 132-12 EQUIPMENT MAINTENANCE.** The maximum dollar value per order will be \$500,000 for all Equipment Maintenance.
- c. **SPECIAL ITEM 132-51 INFORMATION TECHNOLOGY SERVICES.** The maximum dollar value per order will be \$500,000 for all Information Technology Services.

12. USE OF FEDERAL SUPPLY SERVICE INFORMATION TECHNOLOGY SCHEDULE CONTRACTS. In accordance with FAR 8.404:

[NOTE: Special ordering procedures have been established for Special Item Number (SIN) 132-51 IT Professional Services; refer to the terms and conditions for that SIN.]

Orders placed pursuant to a Multiple Award Schedule (MAS), using the procedures in FAR 8.404, are considered to be issued pursuant to full and open competition. Therefore, when placing orders under Federal Supply Schedules, ordering offices need not seek further competition, synopsize the requirement, make a separate determination of fair and reasonable pricing, or consider small business set-asides in accordance with subpart 19.5 GSA has already determined the prices of items under schedule contracts to be fair and reasonable. By placing an order against a schedule using the procedures outlined below, the ordering office has concluded that the order represents the best value and results in the lowest overall cost alternative (considering price, special features, administrative costs, etc.) to meet the Government's needs.

- **a.** Orders placed at or below the micro-purchase threshold. Ordering offices can place orders at or below the micro-purchase threshold with any Federal Supply Schedule Contractor.
- b. Orders exceeding the micro-purchase threshold but not exceeding the maximum order threshold. Orders should be placed with the Schedule Contractor that can provide the supply or service that represents the best value. Before placing an order, ordering offices should consider reasonably available information about the supply or service offered under MAS contracts by using the "GSA Advantage!" on-line shopping service, or by reviewing the catalogs/pricelists of at least three Schedule Contractors and selecting the delivery and other options available under the schedule that meets the agency's needs. In selecting the supply or service representing the best value, the ordering office may consider--



- (1) Special features of the supply or service that are required in effective program performance and that are not provided by a comparable supply or service;
- (2) Trade-in considerations;
- (3) Probable life of the item selected as compared with that of a comparable item;
- (4) Warranty considerations;
- (5) Maintenance availability;
- (6) Past performance, and
- (7) Environmental and energy efficiency considerations.
- **c.** Orders exceeding the maximum order threshold. Each schedule contract has an established maximum order threshold. This threshold represents the point where it is advantageous for the ordering office to seek a price reduction. In addition to following the procedures in paragraph b, above, and before placing an order that exceeds the maximum order threshold, ordering offices shall--
- (1) Review additional Schedule Contractor's catalogs/pricelists or use the "GSA Advantage!" on-line shopping service;
- (2) Based upon the initial evaluation, generally seek price reductions from the Schedule Contractor (s) appearing to provide the best value (considering price and other factors); and
- (3) After price reductions have been sought, place the order with the Schedule Contractor that provides the best value and results in the lowest overall cost alternative. If further price reductions are not offered, an order may still be placed if the ordering office determines that it is appropriate.

NOTE: For orders exceeding the maximum order threshold, the Contractor may:

- (1) Offer a new lower price for this requirement (the Price Reduction clause is not applicable to orders placed over the Maximum Order in FAR 52.216-19 Order Limitations.)
- (2) Offer the lowest price available under the contract; or
- (3) Decline the order (orders must be returned in accordance with FAR 52.216-19).
- **d. Price Reductions.** In addition to the circumstances outlined in paragraph c, above, there may be instances when ordering offices will find it advantageous to request a price reduction. For example, when the ordering office finds a schedule supply or service elsewhere at a lower price or when a BPA is being established to fill recurring requirements, requesting a price reduction could be advantageous. The potential volume of orders under these agreements, regardless of the size of the individual order, may offer the ordering office the opportunity to secure greater discounts. Schedule Contractors are not required to pass on to all schedule users a price reduction extended only to an individual agency for a specific order.
- **e. Small business.** For orders exceeding the micro-purchase threshold, ordering offices should give preference to small business concerns when two or more items at the same delivered price will satisfy the requirement.
- **f. Documentation.** Orders should be documented, at a minimum, by identifying the Contractor the item was purchased from, the item purchased, and the amount paid. If an agency requirement in excess of the micro-purchase threshold is defined so as to require a particular brand name, product, or feature of a product peculiar to one manufacturer, thereby precluding consideration of a product manufactured by another company, the ordering office shall include an explanation in the file as to why the particular brand name, product, or feature is essential to satisfy the agency's needs.
- 13. FEDERAL INFORMATION TECHNOLOGY/TELECOMMUNICATION STANDARDS REQUIREMENTS:

Federal departments and agencies acquiring products from this Schedule must comply with the provisions of the Federal Standards Program, as appropriate (reference: NIST Federal Standards Index). Inquiries to determine whether or not specific products listed herein comply with Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering offices, shall be responded to promptly by the Contractor.

13.1 FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATIONS (FIPS PUBS):

Information Technology products under this Schedule that do not conform to Federal Information Processing Standards (FIPS) should not be acquired unless a waiver has been granted in accordance with the applicable "FIPS Publication." The U.S. Department of Commerce, National Institute of Standards and Technology (NIST) issue Federal Information Processing Standards Publications (FIPS PUBS), pursuant to National Security Act. Information concerning their availability and applicability should be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161. FIPS PUBS include voluntary standards when these are adopted for Federal use. Individual orders for FIPS



PUBS should be referred to the NTIS Sales Office, and orders for subscription service should be referred to the NTIS Subscription Officer, both at the above address, or telephone number (703) 487-4650.

13.2 FEDERAL TELECOMMUNICATION STANDARDS (FED-STDS):

Telecommunication products under this Schedule that do not conform to Federal Telecommunication Standards (FED-STDS) should not be acquired unless a waiver has been granted in accordance with the applicable "FED-STD." The U.S. Department of Commerce, National Institute of Standards and Technology (NIST) issue Federal Telecommunication Standards, pursuant to National Security Act. Ordering information and information concerning the availability of FED-STDS should be obtained from the GSA, Federal Supply Service, Specification Section, 470 East L'Enfant Plaza, Suite 8100, SW, Washington, DC 20407, telephone number (202) 619-8925. Please include a self-addressed mailing label when requesting information by mail. Information concerning their applicability can be obtained by writing or calling the U.S. Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD 20899, telephone number 301/975-2833.

14. SECURITY REQUIREMENTS:

In the event security requirements are necessary, the ordering activities may incorporate, in their delivery order(s), a security clause in accordance with current laws, regulations, and individual agency policy; however, the burden of administering the security requirements shall be with the ordering agency. If any costs are incurred as a result of the inclusion of security requirements, such costs will not exceed ten percent (10%) or \$100,000, of the total dollar value of the order, whichever is lesser.

15. CONTRACT ADMINISTRATION FOR ORDERING OFFICES:

Any ordering office, with respect to any one or more delivery orders placed by it under this contract, may exercise the same rights of termination as might the GSA Contracting Officer under provisions of FAR 52.212-4, paragraphs (l) Termination for the Government's convenience, and (m) Termination for Cause (See C.1).

16. GSA ADVANTAGE:

GSA Advantage is an online, interactive electronic information and ordering system that provides on-line access to vendors' schedule prices with ordering information. GSA Advantage will allow the user to perform various searches across all contracts including, but not limited to:

Perform various searches across all contracts including, but not limited to:

- (1) Manufacturer;
- (2) Manufacturer's Part Number; and
- (3) Product categories

Agencies can browse GSA Advantage by accessing the World Wide Web utilizing a browser (ex.: Explorer). The Internet address is http://www.gsa.gov.

17. TRANSPORTATION OF EQUIPMENT:

FOB DESTINATION. Prices cover equipment delivery to destination, for any location within the geographic scope of this contract unless otherwise specified.



18. INSTALLATION AND TECHNICAL SERVICES:

- a. **INSTALLATION.** When the equipment provided under this contract is not normally self-installable, the Contractor's technical personnel shall be available to the ordering activity, at the ordering activity's location, to install the equipment and to train ordering activity personnel in the use and maintenance of the equipment. The charges, if any, for such services are listed below, or in the price schedule:
- b. **OPERATING AND MAINTENANCE MANUALS**. The Contractor shall furnish the ordering activity with one (1) copy of all operating and maintenance manuals which are normally provided with the equipment being purchased.

19. PURCHASE OF INCIDENTAL, NON-SCHEDULE ITEMS:

For administrative convenience, open market (non-contract) items may be added to a Federal Supply Schedule Blanket Purchase Agreement (BPA) or an individual order, provided that the items are clearly labeled as such on the order, all applicable regulations have been followed, and price reasonableness has been determined by the ordering activity for the open market (non-contract) items.

20. CONTRACTOR COMMITMENTS, WARRANTIES AND REPRESENTATIONS:

- a. For the purpose of this contract, commitments, warranties and representations include, in addition to those agreed to for the entire schedule contract:
- (1) Time of delivery/installation quotations for individual orders;
- (2) Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design and/or functional characteristics and capabilities of a product/equipment/ service/software package submitted in response to requirements which result in orders under this schedule contract.
- (3) Any representations and/or warranties concerning the products made in any literature, description, drawings and/or specifications furnished by the Contractor.
- b. The above is not intended to encompass items not currently covered by the GSA Schedule contract.

21. OVERSEAS ACTIVITIES:

The terms and conditions of this contract shall apply to all orders for installation, maintenance and repair of equipment in areas listed in the pricelist outside the 48 contiguous states and the District of Columbia, except as indicated below:

Upon request of the Contractor, the Government may provide the Contractor with logistics support, as available, in accordance with all applicable Government regulations. Such Government support will be provided on a reimbursable basis, and will only be provided to the Contractor's technical personnel whose services are exclusively required for the fulfillment of the terms and conditions of this contract.

22. YEAR 2000 WARRANTY - COMMERCIAL SUPPLY ITEMS:

(I-FSS-550-A)(AUG 1997)

As used in this clause, "Year 2000 compliant" means information technology that accurately processes date/time data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000 and leap year calculations. Furthermore, Year 2000 compliant information technology, when used in combination with other information technology, shall accurately process date/time if the other information technology properly exchanges date/time data with it.



- (a) All currently awarded products that are not Year 2000 compliant must be deleted from this contract no later than December 31, 1999.
- (b) Any contract modifications, adding new items under clause 552.243-72, Modifications (Multiple Award Schedule), must meet the warranty requirement in paragraph c, below.
- (c) The Contractor warrants that each hardware, software, and firmware product delivered under this contract shall be able to accurately process date data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, including leap year calculations, when used in accordance with the product documentation provided by the Contractor, provided that all listed or unlisted products (e.g. hardware, software, firmware) used in combination with such listed product properly exchange date data with it. If the contract requires that specific listed products must perform as a system in accordance with the foregoing warranty, then that warranty shall apply to those listed products as a system. The duration of this warranty and the remedies available to the Government for breach of this warranty shall be as defined in, and subject to, the terms and limitations of the Contractor's standard commercial warranty or warranties contained in this contract, provided that notwithstanding any provision to the contrary in such commercial warranty or warranties, the remedies available to the Government under this warranty shall include repair or replacement of any listed product whose non-compliance is discovered or made known to the Contractor in writing within ninety (90) days after acceptance. Nothing in this warranty shall be construed to limit any rights or remedies the Government may otherwise have under this contract with respect to defects other than Year 2000 performance.

23. BLANKET PURCHASE AGREEMENTS (BPAs):

Federal Acquisition Regulation (FAR) 13.201(a) defines Blanket Purchase Agreements (BPAs) as "...a simplified method of filling anticipated repetitive needs for supplies or services by establishing 'charge accounts' with qualified sources of supply." The use of Blanket Purchase Agreements under the Federal Supply Schedule Program is authorized in accordance with FAR 13.202(c) (3), which reads, in part, as follows:

"BPAs may be established with Federal Supply Schedule Contractors, if not inconsistent with the terms of the applicable schedule contract."

Federal Supply Schedule contracts contain BPA provisions to enable schedule users to maximize their administrative end purchasing savings. This feature permits schedule users to set up "accounts" with Schedule Contractors to fill recurring requirements. These accounts establish a period for the BPA and generally address issues such as the frequency of ordering and invoicing, authorized callers, discounts, delivery locations and time. Agencies may qualify for the best quantity/volume discounts available under the contract, based on the potential volume of business that may be generated through such an agreement, regardless of the size of individual orders. In addition, agencies may be able to secure a discount higher than that available in the contract based on the aggregate volume of business possible under a BPA. Finally, Contractors may be open to a progressive type of discounting where the discount would increase once the sales accumulated under the BPA reach certain prescribed levels. Use of a BPA may be particularly useful with the new Maximum Order feature. See the Suggested Format, contained in this Schedule Pricelist, for customer to consider when using this purchasing tool.

24. CONTRACTOR TEAM ARRANGEMENTS:

Federal Supply Schedule Contractors may use "Contractor Team Arrangements" (see FAR 9.6) to provide solutions when responding to a customer agency requirements. The policy and procedures outlined in this part will provide more flexibility and allow innovative acquisition methods when using the Federal Supply Schedules. See the additional information regarding Contractor Team Arrangements in this Schedule Pricelist.

TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY NEW EQUIPMENT (SPECIAL ITEM 132-8)

1. MATERIAL AND WORKMANSHIP:

All equipment furnished hereunder must perform the function for which it is intended.



2. ORDER:

A written order, EDI (GSA Advantage and FACNET), credit card, and BPA or BOA orders shall be the basis for purchase in accordance with the provisions of this contract. If time of delivery extends beyond the expiration date of the contract, the Contractor will be obligated to meet the delivery and installation date specified in the original order.

For credit card orders, BPAs or BOAs, telephone orders are permissible.

3. TRANSPORTATION OF EQUIPMENT:

FOB DESTINATION. Prices cover equipment delivery to destination, for any location within the geographic scope of this contract unless otherwise specified.

4. INSTALLATION AND TECHNICAL SERVICES:

a. **INSTALLATION.** When the equipment provided under this contract is not normally self-installable, the Contractor's technical personnel shall be available to the Government, at the Government's location, to install the equipment and to train Government personnel in the use and maintenance of the equipment. The charges for such services are listed below, or in the price schedule:

b. **OPERATING AND MAINTENANCE MANUALS.** The Contractor shall furnish the Government with one (1) copy of all operating and

maintenance manuals relating to the equipment being installed/purchased that is normally provided commercially at no charge.

5. ACCEPTANCE:

Equipment must operate in accordance with manufacturer's published specifications. The user agency should give the Contractor a notice of acceptance or rejection within 30 days from receipt of the equipment. The Government is relieved of all risk of loss or damage prior to acceptance.

6. GUARANTEE:

- a. The Contractor will furnish all maintenance, machine adjustments, repairs, and parts at the Government's location for a period of 90 days.
- b. All parts replaced during the guarantee period shall become the property of the Contractor.
- c. Prior to the expiration of the guarantee period, whenever equipment is shipped for repair or mechanical replacement purposes, the Contractor shall bear all costs, including, but not limited to, costs of packing, transportation, rigging, drayage, and insurance. This guarantee shall apply to the replacement machine from the date of its acceptance.
- d. When equipment is returned to the Contractor's establishment for repairs, the Contractor shall be responsible for any damage or loss, from the time the equipment is removed from the Government's installation, until the equipment is returned to such installation.
- e. This guarantee does not apply if damage to the equipment is occasioned by fault or negligence of the Government.
- f. Inspection and repair of defective equipment under this guarantee will only be performed at the Contractor's plant at the following address:

and defective equipment will be repaired or replaced within 48 hours after receipt.

7. INVOICES AND PAYMENT



Invoices for training shall be submitted by the Contractor after Government completion of the training course. Charges for training must be paid in arrears 31 U.S.C. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

8. FORMAT AND CONTENT OF TRAINING:

a. The Contractor shall provide written materials (i.e., manuals, handbooks, texts, etc.) normally provided with course offerings. Such documentation will become the property of the student upon completion of the training class.

9. PURCHASE PRICE FOR ORDERED EQUIPMENT:

The purchase price that the Government will be charged will be the Government purchase price in effect at the time of order placement, or the Government purchase price in effect on the installation date (or delivery date when installation is not applicable), whichever is less.

10. RESPONSIBILITIES OF THE CONTRACTOR:

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City or otherwise) covering work of this character, and shall include all costs, if any, of such compliance in the prices quoted in this offer.

11. TRADE-IN OF INFORMATION TECHNOLOGY (FIP) EQUIPMENT:

When an agency determines that Information Technology (FIP) equipment will be replaced, the agency shall follow the contracting policies and procedures in the Federal Acquisition Regulation (FAR), the policies and procedures regarding Disposition of Information Technology Excess Personal Property in the Federal Property Management Regulations (FPMR) (41 CFR 101-43.6), and the policies and procedures on exchange/sale contained in FPMR 41 CFR part 101-46.

TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF EQUIPMENT (SPECIAL ITEM 132-8)

1. MATERIAL AND WORKMANSHIP

All equipment furnished hereunder must satisfactorily perform the function for which it is intended.

2. ORDER

Written orders, EDI orders (GSA Advantage! and FACNET), credit card orders, and orders placed under blanket purchase agreements (BPA) agreements shall be the basis for purchase in accordance with the provisions of this contract. If time of delivery extends beyond the expiration date of the contract, the Contractor will be obligated to meet the delivery and installation date specified in the original order.

For credit card orders and BPAs, telephone orders are permissible.

3. TRANSPORTATION OF EQUIPMENT

FOB DESTINATION. Prices cover equipment delivery to destination, for any location within the geographic scope of this contract.



4. INSTALLATION AND TECHNICAL SERVICES

a. INSTALLATION. When the equipment provided under this contract is not normally self-installable, the Contractor's
technical personnel shall be available to the ordering activity, at the ordering activity's location, to install the equipment and to
train ordering activity personnel in the use and maintenance of the equipment. The charges, if any, for such services are listed
below, or in the price schedule:

b. INSTALLATION, DEINSTALLATION, REINSTALLATION. The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of \$2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall receive less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is Segre gable and exceeds \$2,000, then the requirements of the Davis-Bacon Act applies.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8 or SIN 132-9.

c. OPERATING AND MAINTENANCE MANUALS. The Contractor shall furnish the ordering activity with one (1) copy of all operating and maintenance manuals which are normally provided with the equipment being purchased.

5. INSPECTION/ACCEPTANCE

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any equipment that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming equipment at no increase in contract price. The ordering activity must exercise its postacceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

6. WARRANTY

- a. Unless specified otherwise in this contract, the Contractor's standard commercial warranty as stated in the contract's commercial pricelist will apply to this contract.
- b. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.
- c. Limitation of Liability. Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.
- d. If inspection and repair of defective equipment under this warranty will be performed at the Contractor's plant, the address is as follows: 14073 Crown Ct. Woodbridge, VA 22193 or appropriate manufacturer

7. PURCHASE PRICE FOR ORDERED EQUIPMENT

The purchase price that the ordering activity will be charged will be the ordering activity purchase price in effect at the time of order placement, or the ordering activity purchase price in effect on the installation date (or delivery date when installation is not applicable), whichever is less.



8. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City or otherwise) covering work of this character, and shall include all costs, if any, of such compliance in the prices quoted in this offer.

9. TRADE-IN OF INFORMATION TECHNOLOGY EQUIPMENT

When an ordering activity determines that Information Technology equipment will be replaced, the ordering activity shall follow the contracting policies and procedures in the Federal Acquisition Regulation (FAR), the policies and procedures regarding disposition of information technology excess personal property in the Federal Property Management Regulations (FPMR) (41 CFR 101-43.6), and the policies and procedures on exchange/sale contained in the FPMR (41 CFR part 101-46).

TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY PROFESSIONAL SERVICES (SPECIAL ITEM 132-51)

****NOTE: All non-professional labor categories must be incidental to, and used solely to support professional services, and cannot be purchased separately.

1. SCOPE

- a. The prices, terms and conditions stated under Special Item Number 132-51 Information Technology Professional Services apply exclusively to IT/IAM Professional Services within the scope of this Information Technology Schedule.
- b. The Contractor shall provide services at the Contractor's facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

2. PERFORMANCE INCENTIVES I-FSS-60 Performance Incentives (April 2000)

- a. Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract.
- b. The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.
- c. Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

3. ORDER

- a. Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.
- b. All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

4. PERFORMANCE OF SERVICES



- a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.
- b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.
- c. The ordering activity should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.
- d. Any Contractor travel required in the performance of IT/IAM Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

5. STOP-WORK ORDER (FAR 52.242-15) (AUG 1989)

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either-
 - (1) Cancel the stop-work order; or
 - (2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if-
 - (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
 - (2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

6. INSPECTION OF SERVICES

In accordance with FAR 52.212-4 CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (MAR 2009) (DEVIATION I - FEB 2007) for Firm-Fixed Price orders and FAR 52.212-4 CONTRACT TERMS AND CONDITIONS –COMMERCIAL ITEMS (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to Time-and-Materials and Labor-Hour Contracts orders placed under this contract.

7. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Dec 2007) Rights in Data – General, may apply.



8. RESPONSIBILITIES OF THE ORDERING ACTIVITY

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite IT/IAM Professional Services.

9. INDEPENDENT CONTRACTOR

All IT/IAM Professional Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the ordering activity.

10. ORGANIZATIONAL CONFLICTS OF INTEREST

a. Definitions.

"Contractor" means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract

"Contractor and its affiliates" and "Contractor or its affiliates" refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An "Organizational conflict of interest" exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on ordering activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor's or its affiliates' objectivity in performing contract work.

b. To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

11. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT/IAM Professional services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

12. PAYMENTS

For firm-fixed price orders the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to labor-hour orders placed under this contract. 52.216-31(Feb 2007) Time-and-Materials/Labor-Hour Proposal Requirements—Commercial Item Acquisition As prescribed in 16.601(e)(3), insert the following provision:

- (a) The Government contemplates award of a Time-and-Materials or Labor-Hour type of contract resulting from this solicitation.
- (b) The offeror must specify fixed hourly rates in its offer that include wages, overhead, general and administrative expenses, and profit. The offeror must specify whether the fixed hourly rate for each labor category applies to labor performed by—
 - (1) The offeror;



- (2) Subcontractors; and/or
- (3) Divisions, subsidiaries, or affiliates of the offeror under a common control.

13. RESUMES

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

14. INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

15. APPROVAL OF SUBCONTRACTS

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

DESCRIPTION OF IT/IAM PROFESSIONAL SERVICES AND PRICING 16.

- The Contractor shall provide a description of each type of IT/IAM Service offered under Special Item Numbers 132-51 IT/IAM Professional Services should be presented in the same manner as the Contractor sells to its commercial and other ordering activity customers. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles (labor categories) for those individuals who will perform the service should be provided.
- Pricing for all IT/IAM Professional Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices, minimum general experience and minimum education.

The following is an example of the manner in which the description of a commercial job title should be presented:

EXAMPLE: Commercial Job Title: System Engineer

Minimum/General Experience: Three (3) years of technical experience which applies to systems analysis and design techniques for complex computer systems. Requires competence in all phases of systems analysis techniques, concepts and methods; also requires knowledge of available hardware, system software, input/output devices, structure and management practices.

Functional Responsibility: Guides users in formulating requirements, advises alternative approaches, conducts feasibility studies.

Minimum Education: Bachelor's Degree in Computer Science

1 (i) Prepare a Request for quotation

- (A) A performance-based statement of work that outlines, at a minimum, the work to be performed, location of work, period of performance, deliverable schedule, applicable standards, acceptance criteria, and any special requirements (i.e., security clearances, travel, special knowledge, etc.) should be prepared.
- (B) A request for quotation should be prepared which includes the performance-based statement of work and requests the contractors submit either a firm-fixed price or a ceiling price to provide the services outlined in the statement of work. A firm-fixed price order shall be requested, unless the ordering office makes a determination that it is not possible at the time of placing the order to estimate accurately the extent or duration of the work or to anticipate cost with any degree of confidence. When such a determination is made, a labor hour or time-and-materials proposal may be requested. The firm-fixed price shall be based on the hourly rates in the schedule contract and shall consider the mix of labor categories and level of effort required to perform the services described in the statement of work. The firm-fixed price of the order should also include any travel costs or other incidental costs related to performance of the services ordered, unless the order provides for reimbursement of travel costs at the rates provided in the Federal Travel or Joint Travel Regulations. A ceiling price must be established for labor hour and time and material orders. (C) The request for quotation may request the contractors, if necessary or appropriate, submit a project plan for performing the task and information
- on the contractor's experience and/or past performance performing similar tasks.
- (D) The request for quotation shall notify the contractors what basis will be used for selecting the contractor to receive the order. The notice shall include the basis for determining whether the contractors are technically qualified and provide an explanation regarding the intended use of any experience and/or past performance information in determining technical acceptability of responses. If consideration will be limited to schedule contractors who are small business concerns as permitted by paragraph (ii) (A) below, the request for quotations shall notify the contractors that will be the case.



(ii) Transmit the Request for quotation to Contractors:

- (A) Based upon initial evaluation of catalogs and pricelists, the ordering office should identify the contractors that appear to offer the best value (considering the scope of services offered, hourly rates and other factors such as contractors' locations, as appropriate). When buying IT professional services under SIN 132-51 ONLY, the ordering office, at its discretion, may limit consideration to those schedule contractors that are small business concerns. This limitation is not applicable when buying supplies and/or services under other SINs as well as SIN 132-51. The limitation may only be used when at least three (3) small businesses that appear to offer services that will meet the agency's needs are available, if the order is estimated to exceed the micro-purchase threshold.
- (B) The request for quotation should be to three (3) contractors if the proposed order is estimated to exceed the micro-purchase threshold, but not to exceed the maximum order threshold. For proposed orders exceeding the maximum order threshold, the request for quotation should be provided to additional contractors that offer services that will meet the agency" needs. Ordering offices should strive to minimize the contractor" costs associated with responding to requests for proposals for specific orders. Requests should be tailored to the minimum level necessary for adequate evaluation and selection for order placement.

(iii) Evaluate proposals and select the contractor to receive the order

After responses have been evaluated against the factors identified in the request for quotation, the order should be placed with the schedule contractor that represents the best value and results in the lowest overall cost alternative (considering price, special qualifications, administrative costs, etc.) to meet the Government's needs.

- (4) The establishment of Federal Supply Schedule BPAs is permitted when the procedures outlined herein are followed. All BPAs for services must define the services that may be ordered under the BPA, along with delivery or performance time frames, billing procedures, etc. The potential volume of orders under BPAs, regardless of the size of individual orders, may offer the ordering office the opportunity to secure volume discounts. When establishing BPAs ordering offices shall –
- (i) Inform contractors in the request for quotation (based on the agency's requirement) if a single BPA or multiple BPAs will be established, and indicate the basis that will be used for selecting the contractors to be awarded the BPAs.
- (A) <u>SINGLE BPA</u>: Generally, a single BPA should be established when the ordering office can define the tasks to be ordered under the BPA and establish a firm-fixed price or ceiling price for individual tasks or services to be ordered. When this occurs, authorized users may place the order directly under the established BPA when the need for service arises. The schedule contractor that represents the best value and results in the lowest overall cost alternative to meet the agency's needs should be awarded the BPA.
- (B) <u>MULTIPLE BPAs</u>: When the ordering office determines multiple BPAs are needed to meet its requirements, the ordering office should determine which contractors can meet any technical qualifications before establishing the BPAs. When multiple BPAs are established, the authorized users must follow the procedures in (3) (ii) (B) above, then place the order with the schedule contractor that represents the best value and results in the lowest overall cost alternative to meet the agency's needs.
- (ii) Review BPAs periodically. Such reviews shall be conducted at least annually. The purpose of the review is to determine whether the BPA still represents the best value (considering price, special qualifications, etc.) and results in the lowest overall cost alternative to meet the agency's needs.
- (5) The ordering office should give preference to small business concerns when two or more contractors can provide the services at the same firm-fixed price or ceiling price.
- (6) When the ordering office's requirement involves both products and IT professional services, the ordering office should total the prices for the products and the firm-fixed price for the services and select the contractor that represents the greatest value in terms of meeting the agency's total needs.

discounts. Schedule Contractors are not required to pass on to all schedule users a price reduction extended only to an individual agency for a specific order.

he amount paid. If other than a firm-fixed price order is placed, such documentation should include the **FUTRON. Inc.**

basis for the determination to use a labor-hour or time-and-materials order. For agency requirements in excess of the micro-purchase threshold, the order file should document the evaluation of schedule contractors' proposals that formed the basis for the selection of the contractor that received the order and the rationale for any trade-offs made in making the selection.

- b. Ordering Procedures for other services available on schedule at fixed prices for specifically defined services or tasks.

 Orders placed pursuant to a Multiple Award Schedule (MAS), using the procedures in FAR 8.404, are considered to be issued pursuant to full and open competition. Therefore, when placing orders under Federal Supply Schedules, ordering offices need not seek further competition, synopsize the requirement, make a separate determination of fair and reasonable pricing, or consider small business set-asides in accordance with subpart 19.5 GSA has already determined the prices of items under schedule contracts to be fair and reasonable. By placing an order against a schedule using the procedures outlined below, the ordering office has concluded that the order represents the best value and results in the lowest overall cost alternative (considering price, special features, administrative costs, etc.) to meet the Government's needs.
- (1) Orders placed at or below the micro-purchase threshold. Ordering offices can place orders at or below the micro-purchase threshold with any Federal Supply Schedule Contractor.



- (2) Orders exceeding the micro-purchase threshold but not exceeding the maximum order threshold. Orders should be placed with the Schedule Contractor that can provide the supply or service that represents the best value. Before placing an order, ordering offices should consider reasonably available information about the supply or service offered under MAS contracts by using the "GSA Advantage!" on-line shopping service, or by reviewing the catalogs/pricelists of at least three Schedule Contractors and selecting the delivery and other options available under the schedule that meets the agency's needs. In selecting the supply or service representing the best value, the ordering office may consider—
- (i) Special features of the service that are required in effective program performance and that are not provided by a comparable supply or service; and (ii) past performance.
- 3. Orders exceeding the maximum order threshold. Each schedule contract has an established maximum order threshold. This threshold represents the point where it is advantageous for the ordering office to seek a price reduction. In addition to following the procedures in paragraph b, above, and before placing an order that exceeds the maximum order threshold, ordering offices shall—
- (i) Review additional Schedule Contractor's catalogs/pricelists or use the "GSA Advantage!" on-line shopping service;
- (ii) Based upon the initial evaluation, generally seek price reductions from the Schedule Contractor (s) appearing to provide the best value (considering price and other factors); and
- (iii) After price reductions have been sought, place the order with the Schedule Contractor that provides the best value and results in the lowest overall cost alternative. If further price reductions are not offered, an order may still be placed if the ordering office determines that it is appropriate.

NOTE: For orders exceeding the maximum order threshold, the Contractor may:

- (A) Offer a new lower price for this requirement (the Price Reduction clause is not applicable to orders placed over the Maximum Order in FAR 52.216-19 Order Limitations.)
- (B) Offer the lowest price available under the contract; or
- (C) Decline the order (orders must be returned in accordance with FAR 52.216-19).
- (4) Blanket Purchase Agreements (BPAs). The establishment of Federal Supply Schedule BPAs is permitted when following the ordering procedures in FAR 8.404. All schedule contracts contain BPA provisions. Ordering offices may use BPAs to establish accounts with Contractors to fill recurring requirements. BPAs should address the frequency of ordering and invoicing, discounts, and delivery locations and times.
- (5) Price Reductions. In addition to the circumstances outlined in paragraph c, above, there may be instances when ordering offices will find it advantageous to request a price reduction. For example, when the ordering office finds a schedule supply or service elsewhere at a lower price or when a BPA is being established to fill recurring requirements, requesting a price reduction could be advantageous. The potential volume of orders under these agreements, regardless of the size of the individual order, may offer the ordering office the opportunity to secure greater discounts. Schedule Contractors are not required to pass on to all schedule users a price reduction extended only to an individual agency for a specific order.
- (6) Small business. For orders exceeding the micro-purchase threshold, ordering offices should give preference to small business concerns when two or more items at the same delivered price will satisfy the requirement.
- (7) Documentation. Orders should be documented, at a minimum, by identifying the Contractor the item was purchased from, the item purchased, and the amount paid. If an agency requirement in excess of the micro-purchase threshold is defined so as to require a particular brand name, product, or feature of a product peculiar to one manufacturer, thereby precluding consideration of a product manufactured by another company, the ordering office shall include an explanation in the file as to why the particular brand name, product, or feature is essential to satisfy the agency's needs.

3. ORDER

a. Agencies may use written orders, EDI orders, blanket purchase orders, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Orders shall not extend beyond the end of the contract period, all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend



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beyond the fiscal year for which funds are available shall include FAR 52.232-19 Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.

b. All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

4. PERFORMANCE OF SERVICES:

- a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering office.
- b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering office.
- c. The Contractor guarantees the satisfactory completion of the IT Services performed under the task order and that all contract personnel utilized in the performance of IT services under the task order shall have the education, experience, and expertise as stated in the task order.
- d. Any Contractor travel required in the performance of IT Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

5. INSPECTION OF SERVICES

The Inspection of Services-Fixed Price (AUG 1996) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection-Time-and-Materials and Labor-Hour (JAN 1986) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract.

6. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, City, State, or otherwise) covering work of this character.

7. RESPONSIBILITIES OF THE GOVERNMENT

Subject to security regulations, the ordering office shall permit Contractor access to all facilities necessary to perform the requisite IT services.

8. INDEPENDENT CONTRACTOR

All IT Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the Government.

9. ORGANIZATIONAL CONFLICTS OF INTEREST

a. Definitions.

"Contractor" means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract,

"Contractor and its affiliates" and "Contractor or its affiliates" refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An "Organizational conflict of interest" exists when the nature of the work to be performed under a proposed Government contract, without some restriction on activities by the Contractor and its affiliates, may either (I) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor's or its affiliates' objectivity in performing contract work.

b. To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the Government, ordering offices may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries, and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

1. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT services. Progress payments may be authorized by the ordering office on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

11. PAYMENTS

For firm-fixed price orders the Government shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for services rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts (Alternative I (APR 1984)) at FAR 52.232-7 applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts (FEB 1997)(Alternative I I (JAN 1986)) at FAR 52.232-7 applies to labor-hours orders placed under this contract.



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12. RESUMES

Resumes shall be provided to the GSA Contracting Officer or the user agency upon request.

13. INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering agency in accordance with the guidelines set for in the FAR.

14. APPROVAL OF SUBCONTRACTS

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

15. DESCRIPTION OF IT SERVICES AND PRICING:

A description of each type of Information Technology Service offered under SIN 132-51 is set forth below.

Specific Labor Categories and Rates are set forth in the Labor Pricelist.

USA COMMITMENT TO PROMOTE SMALL BUSINESS PARTICIPATION PROCUREMENT PROGRAMS

PREAMBLE

Futron, Inc. provides commercial products and services to the Federal Government. We are committed to promoting participation of small, small disadvantaged and women-owned small businesses in our contracts. We pledge to provide opportunities to the small business community through reselling opportunities, mentor-protégé programs, joint ventures, teaming arrangements, and subcontracting.

COMMITMENT

To actively seek and partner with small business.

To identify, qualify, mentor and develop small, small disadvantaged and women-owned small businesses by purchasing from these businesses whenever practical.

To develop and promote company policy initiatives that demonstrates our support for awarding contracts and subcontracts to small business concerns.

To undertake significant efforts to determine the potential of small, small disadvantaged and women-owned small business to supply products and services to our company.

To insure procurement opportunities are designed to permit the maximum possible participation of small, small disadvantaged and women-owned small businesses.

To attend business opportunity workshops, minority business enterprise seminars, trade fairs, procurement conferences, etc., to identify and increase small businesses with whom to partner.

To publicize in our marketing publications our interest in meeting small businesses that may be interested in subcontracting opportunities.

We signify our commitment to work in partnership with small, small disadvantaged and women-owned small businesses to promote and increase their participation in Federal Government contracts. To accelerate potential opportunities please contact Mr. Shakil Qureshi, President, and (703) 440-8265 x.102. E-mail: squreshi@futroninc.com. Our fax # is (703) 440-8269.



GSA PRICE LIST Cabling and Connectors

SIN 132-8

ITEM	DESCRIPTION	UNIT	PRICE(\$)
	Premise Connectivity Components		
Connectors			
Fut-001	Category 5E 24 Port Patch Panel 110 style	Ea	\$190.75
Fut-002	Category 5E 48 Port Patch Panel 110 style	Ea	\$323.00
Fut-003	Category 5E RJ-45 Jack 568 A/B	Ea	\$6.05
Fut-004	Single Port Faceplate	Ea	\$1.92
Fut-005	Dual Port Faceplate	Ea	\$2.02
Fut-006	Quad Faceplate	Ea	\$2.11
Fut-007	Box Eliminator (flush applications)	Ea	\$1.09
Fut-008	Surface mount box	Ea	\$6.26
Fut-009	Surface mount raceway 8' section	Ea	\$16.35
Fut-010	Raceway coupler	Ea	\$1.03
Fut-011	Raceway flat 90 degree	Ea	\$1.03
Fut-012	Raceway drop ceiling connector	Ea	\$2.67
Fut-013	Category 6 24 port patch panel 110 style	Ea	\$245.25
Fut-014	Category 6 48 Port Patch Panel 110 style	Ea	\$354.25
Fut-015	Category 6 RJ-45 Jack 568 A/B	Ea	\$7.96
Fut-016	24 Port Fiber Optic Patch Panel	Ea	\$214.00
Fut-017	48 Port Fiber Optic Patch Panel	Ea	\$310.65
Fut-018	72 Port Fiber Optic Patch Panel	Ea	\$354.25
Fut-019	M/M Fiber Optic Connector Epoxy	Ea	\$7.35
Fut-020	S/M Fiber Optic Connector Epoxy	Ea	\$10.35
Fut-021	Fiber Optic connector panel (6 PORT)	Ea	\$51.77
Fut-022	66-Style termination block (50 pr.)	Ea	\$10.62
Fut-023	110-style termination block (50 pr.)	Ea	\$20.43
Fut-024	7' free standing relay rack	Ea	\$158.05

Cables

Fut-050	Category 5E 4 Pair UTP Non-Plenum	Ft	\$0.10
Fut-051	Category 5E 4 Pair UTP Plenum	Ft	\$0.20
Fut-052	Category 5 25 Pair UTP Non-Plenum	Ft	\$1.37
Fut-053	Category 5 25 Pair UTP Plenum	Ft	\$2.73
Fut-054	Category 6 4 Pair UTP Non-Plenum	Ft	\$0.13
Fut-055	Category 6 4 Pair UTP Plenum	Ft	\$0.38
Fut-056	Category 3 25 pair non-plenum	Ft	\$0.27
Fut-057	Category 3 50 pair non-plenum	Ft	\$0.49
Fut-058	Category 3 100 pair non-plenum	Ft	\$0.82
Fut-059	Outside gel-filled 25 pair	Ft	\$0.81
Fut-060	Outside gel-filled 50 pair	Ft	\$1.64



Fut-061	Outside gel-filled 100 pair	Ft	\$2.20
Fut-062	Outside gel-filled 200 pair	Ft	\$4.00
Fut-063	6 strand M/M non-plenum Fiber optic cable	Ft	\$1.04
Fut-064	12 strand M/M non-plenum Fiber Optic cable	Ft	\$1.64
Fut-065	24 strand M/M non-plenum Fiber Optic cable	Ft	\$2.90
Fut-066	Gel-filled 6 strand M/M Fiber Optic cable	Ft	\$1.65
Fut-067	Gel-filled 12 strand M/M Fiber Optic cable	Ft	\$3.00
Fut-068	Gel-filled 24 strand M/M Fiber Optic cable	Ft	\$3.74
Fut-069	6 strand S/M non-plenum Fiber Optic cable	Ft	\$1.36
Fut-070	12 strand S/M non-plenum Fiber Optic cable	Ft	\$2.45
Fut-071	Gel-filled 6 strand S/M Fiber optic cable	Ft	\$1.90
Fut-072	Gel-filled 12 strand S/M Fiber Optic cable	Ft	\$2.60
Fut-073	Gel-filled 24 strand S/M Fiber Optic cable	Ft	\$4.00

Cables

Fut-074	48 strand M/M non-plenum Fiber Optic cable	Ft	\$8.90
Fut-075	72 strand M/M non-plenum Fiber Optic cable	Ft	\$15.70
Fut-076	144 strand M/M non-plenum Fiber Optic cable	Ft	\$31.58
Fut-077	6 strand S/M non-plenum Fiber optic cable	Ft	\$0.41
Fut-078	12 strand S/M non-plenum Fiber optic cable	Ft	\$1.04
Fut-079	24 strand S/M non-plenum Fiber optic cable	Ft	\$2.15
Fut-080	48 strand S/M non-plenum Fiber optic cable	Ft	\$6.40
Fut-081	72 strand S/M non-plenum Fiber optic cable	Ft	\$8.43
Fut-082	144 strand S/M non-plenum Fiber optic cable	Ft	\$20.34
Fut-083	6 strand M/M plenum Fiber optic cable	Ft	\$1.04
Fut-084	12 strand M/M plenum Fiber optic cable	Ft	\$1.89
Fut-085	24 strand M/M plenum Fiber optic cable	Ft	\$4.615
Fut-086	48 strand M/M plenum Fiber optic cable	Ft	\$11.18
Fut-087	72 strand M/M plenum Fiber optic cable	Ft	\$19.64
Fut-088	144 strand M/M plenum Fiber optic cable	Ft	\$47.57
Fut-089	6 strand S/M plenum Fiber optic cable	Ft	\$0.54
Fut-090	12 strand S/M plenum Fiber optic cable	Ft	\$1.14
Fut-091	24 strand S/M plenum Fiber optic cable	Ft	\$2.63
Fut-092	48 strand S/M plenum Fiber optic cable	Ft	\$8.03
Fut-093	72 strand S/M plenum Fiber optic cable	Ft	\$13.65
Fut-094	144 strand S/M plenum Fiber optic cable	Ft	\$30.00
Fut-095	Gel-filled 48 strand M/M Fiber Optic cable	Ft	\$7.76
Fut-096	Gel-filled 72 strand M/M Fiber Optic cable	Ft	\$10.22
Fut-097	Gel-filled 144 strand M/M Fiber Optic cable	Ft	\$29.11
Fut-098	6 strand S/M gel-filled Fiber optic cable	Ft	\$0.42
Fut-099	12 strand S/M gel-filled Fiber optic cable	Ft	\$0.42
Fut-100	24 strand S/M gel-filled Fiber optic cable	Ft	\$0.62
Fut-101	48 strand S/M gel-filled Fiber optic cable	Ft	\$1.14
Fut-102	72 strand S/M gel-filled Fiber optic cable	Ft	\$1.835
Fut-103	144 strand S/M gel-filled Fiber optic cable	Ft	\$4.46
Fut-104	6 strand M/M armored Fiber optic cable	Ft	\$2.55
Fut-105	12 strand M/M armored Fiber optic cable	Ft	\$3.69
Fut-106	24 strand M/M armored Fiber optic cable	Ft	\$7.35
Fut-107	48 strand M/M armored Fiber optic cable	Ft	\$19.61

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Fut-108	72 strand M/M armored Fiber optic cable	Ft	\$30.88
Fut-109	6 strand S/M armored Fiber optic cable	Ft	\$2.61
Fut-110	12 strand S/M armored Fiber optic cable	Ft	\$3.27
Fut-111	24 strand S/M armored Fiber optic cable	Ft	\$5.17
Fut-112	48 strand S/M armored Fiber optic cable	Ft	\$15.15
Fut-113	72 strand S/M armored Fiber optic cable	Ft	\$25.90

Misc.

Fut-114	MM Connector	Ea	\$20.00	
Fut-115	SM Connector	Ea	\$27.50	
Fut-117	MM Coupler Panel	Ea	\$50.00	
Fut-118	SM Coupler Panel	Ea	\$60.50	
Fut-119	2 X 2 Cable Tray	Ea	\$50.00	
Fut-120	4 X 4 Cable Tray	Ea	\$100.00	
Fut-130	Large Capacity Cable Tray	Ea	\$200.00	
Fut-131	Tray Divider Wall	Ea	\$50.00	
Fut-132	Misc Tray Hardware	Kit	\$55.00	
Fut-133	Cat 5e Patch Cord 3'	Ea	\$1.65	
Fut-134	Cat 5e Patch Cord 5'	Ea	\$2.00	
Fut-135	Cat 5e Patch Cord 10'	Ea	\$3.31	
Fut-136	Cat 5e Patch Cord 15'	Ea	\$5.00	
Fut-137	Cat 5e Patch Cord 20'	Ea	\$6.08	
Fut-138	Cat 5e Patch Cord 25'	Ea	\$6.65	
Fut-134	Cat 6 Patch Cord 3'	Ea	\$4.33	
Fut-135	Cat 6 Patch Cord 5'	Ea	\$4.83	
Fut-136	Cat 6 Patch Cord 10'	Ea	\$6.83	
Fut-137	Cat 6 Patch Cord 15'	Ea	\$11.33	
Fut-138	Cat 6 Patch Cord 20'	Ea	\$11.50	
Fut-139	Cat 6 Patch Cord 25'	Ea	\$12.00	
Fut-140	1 meter Fiber Jumper Multimode	Ea	\$26.00	
Fut-141	3 meter Fiber Jumper Multimode	Ea	\$30.00	
Fut-142	9 meter Fiber Jumper Multimode	Ea	\$53.00	
Fut-143	1 meter Fiber Jumper Singlemode	Ea	\$43.00	
Fut-144	3 meter Fiber Jumper Singlemode	Ea	\$47.00	
Fut-145	9 meter Fiber Jumper Singlemode	Ea	\$79.00	
Fut-146	Outside gel-filled 400 pair	FT	\$6.53	
Fut-147	Outside gel-filled 900 pair	FT	\$14.95	
Fut-148	Category 3 25 pair plenum	Ft	\$0.77	
Fut-149	Category 3 50 pair plenum	Ft	\$1.78	
Fut-150	Category 3 100 pair plenum	Ft	\$3.25	
FUT-151	Cat.6A plenum cable	Box of 1000'	\$ 654.56	
FUT-152	Cat.6A Jack	Each	\$ 8.64	
FUT-153	Cat.6A 24 Port Patch Panel	Each	\$ 222.18	
FUT-154	Cat.6A 48 Port Patch Panel	Each	\$ 436.29	
FUT-156	Cat.6A Riser Cable	Box of 1000'	\$ 418.57	
FUT-157	Ladder Rack 15"WX1.5HX9.96L	Each	\$ 228.87	
FUT-158	Ladder Rack 18"WX1.5HX9.96L	Each	\$ 239.33	

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FUT-160 Wire Mesh Cable Tray 4"HX16"WX9.96L Each \$ 113.08 FUT-161 Installation Hardware Kit Kit \$ 104.05 FUT-162 Cat.6A Patch Cable 3" Each \$ 7.38 FUT-162 Cat.6A Patch Cable 5" Each \$ 7.38 FUT-164 Cat.6A Patch Cable 10" Each \$ 10.66 FUT-165 Cat.6A Patch Cable 15" Each \$ 10.62 FUT-166 Cat.6A Patch Cable 20" Each \$ 13.04 FUT-167 Cat.6A Patch Cable 25" Each \$ 14.68 FUT-168 Communication cabinet Base Unit 72" Cabinet w/19" Each \$ 11.722.00 FUT-169 Communication cabinet Caster Set Each \$ 112.75 FUT-170 Communication cabinet 19" Rack Mounting Shelf Each \$ 205.00 FUT-171 72" Communication Cabinet Plexiglass Door w/Lock Each \$ 768.75 FUT-1717 Communication Cabinet Plexiglass Door w/Lock Each \$ 112.75 FUT-1717 Communication Cabinet Plexiglass Door w/Lock Each \$ 768.75 FUT-1717 CM04, Cab	FUT-159	Wire Mesh Cable Tray 2"HX16"WX9.96L	Each	\$ 103.66
FUT-162 Cat.6A Patch Cable 3' Each \$ 7.38 FUT-163 Cat.6A Patch Cable 5' Each \$ 8.20 FUT-164 Cat.6A Patch Cable 10' Each \$ 10.66 FUT-165 Cat.6A Patch Cable 10' Each \$ 10.66 FUT-165 Cat.6A Patch Cable 15' Each \$ 10.62 FUT-167 Cat.6A Patch Cable 20' Each \$ 13.04 FUT-167 Cat.6A Patch Cable 25' Each \$ 14.68 FUT-168 Communication cabinet Base Unit 72" Cabinet w/19" Each \$ 1,722.00 mounting rails) FUT-169 Communication cabinet Caster Set Each \$ 112.75 FUT-170 Communication Cabinet Plexiglass Door w/Look Each \$ 205.00 FUT-171 72" Communication Cabinet 16 POS Power strip 12" cord Each \$ 112.75 FUT-175 CM04, Cable management – interbay Each \$ 12.75 FUT-176 Half-height locking free standing Communication cabinet Each \$ 1,722.00 FUT-177 Rack Relay, 84"H x 19"W Double Sided Aluminium Each \$ 426.40 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-186 1 1/4" x 2" x 12" Grounding Busbar Each \$ 57.30 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers and Certification Testers FUT-195 UPS up to 3000 VA Each \$ 1,839.98 FUT-197 UPS up to 5000 VA Each \$ 1,638.98 FUT-199 UPS up to 1000 VA Each \$ 1,638.98 FUT-199 UPS up to 1000 VA Each \$ 1,204.38 FUT-199 UPS up to 1000 VA Each \$ 1,494.38 FUT-199 UPS up to 1500 VA Each \$ 1,494.38 FUT-199 UPS up to 1000 VA Each \$ 1,494.38 FUT-200 Horizontal Wire management 19" Each \$ 1,494.38 FUT-201 Vertical Cable Manager, 2U Single Side with Cover Each \$ 1,494.38 FUT-202 Horizontal wire management 19" Each \$ 1,494.38 FUT-204 Cable Manager, 2U Single Side with Cover Each \$ 1,638.94 FUT-205 J hook Each \$ 3.23 FUT-206 I aceplate Each \$ 3.23 FUT-207 Cat. 6 A Cable (SHELDED) Each \$ 0.99 FUT-208 Cat. 6 A Cable (SHELDED) Each \$ 0.99 FUT-209 Cat. 6 A Cable (SHELDED) Each \$ 0.99 FUT-200 Cat. 6 A Cable (SHELDED) Each \$ 0.40	FUT-160	Wire Mesh Cable Tray 4"HX16"WX9.96L	Each	\$ 113.08
FUT-163	FUT-161	Installation Hardware Kit	Kit	\$ 104.05
FUT-164 Cat.6A Patch Cable 10' Each \$ 10.66 FUT-165 Cat.6A Patch Cable 15' Each \$ 10.62 FUT-166 Cat.6A Patch Cable 20' Each \$ 13.04 FUT-167 Cat.6A Patch Cable 25' Each \$ 14.68 FUT-168 Communication cabinet Base Unit 72' Cabinet w/19" Each \$ 1,722.00 FUT-169 Communication cabinet Caster Set Each \$ 112.75 FUT-169 Communication cabinet 19' Rack Mounting Shelf Each \$ 205.00 FUT-170 Communication Cabinet 16 POS Power strip 12'' cord Each \$ 768.75 FUT-171 72'' Communication Cabinet 16 POS Power strip 12'' cord Each \$ 112.75 FUT-175 CM04, Cable management – interbay Each \$ 65.60 FUT-176 Half-height locking free standing Communication cabinet Each \$ 1,722.00 FUT-177 Rack Relay, 84''H x 19''W Double Sided Aluminium Each \$ 1,722.00 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 563.75	FUT-162	Cat.6A Patch Cable 3'	Each	\$ 7.38
FUT-165	FUT-163	Cat.6A Patch Cable 5'	Each	\$ 8.20
FUT-166	FUT-164	Cat.6A Patch Cable 10'	Each	\$ 10.66
FUT-167 Cat.6A Patch Cable 25' Each \$ 14.68 FUT-168 Communication cabinet Base Unit 72" Cabinet w/19" Each \$ 1,722.00 FUT-169 Communication cabinet Caster Set Each \$ 112.75 FUT-170 Communication cabinet 19" Rack Mounting Shelf Each \$ 205.00 FUT-171 72" Communication Cabinet Plexiglass Door w/Lock Each \$ 768.75 FUT-174 Communication Cabinet 16 POS Power strip 12" cord Each \$ 112.75 FUT-175 CM04, Cable management – interbay Each \$ 65.60 FUT-176 Half-height locking free standing Communication cabinet Each \$ 65.60 FUT-177 Rack Relay, 84"H x 19"W Double Sided Aluminium Each \$ 1,722.00 FUT-177 Mighty Moe type Rack Each \$ 563.75 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 563.75 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers Each \$ 15.36 FUT-195 UPS up to 6000 VA Each \$ 1	FUT-165	Cat.6A Patch Cable 15'	Each	\$ 10.62
FUT-168	FUT-166	Cat.6A Patch Cable 20'	Each	\$ 13.04
mounting rails Communication cabinet Caster Set Each \$ 112.75	FUT-167	Cat.6A Patch Cable 25'	Each	\$ 14.68
FUT-169 Communication cabinet Caster Set Each \$ 112.75 FUT-170 Communication cabinet 19" Rack Mounting Shelf Each \$ 205.00 FUT-171 72" Communication Cabinet Plexiglass Door w/Lock Each \$ 768.75 FUT-174 Communication Cabinet 16 POS Power strip 12" cord Each \$ 112.75 FUT-175 CM04, Cable management – interbay Each \$ 65.60 FUT-176 Half-height locking free standing Communication cabinet Each \$ 65.60 FUT-177 Rack Relay, 84"H x 19"W Double Sided Aluminium Each \$ 426.40 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 563.75 FUT-186 1 1/4" x 2" x 12" Grounding Busbar Each \$ 57.30 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers and Certification Testers Each \$ 18,450.00 FUT-195 UPS up to 3000 VA Each \$ 4,516.15 FUT-196 UPS up to 3000 VA Each \$ 1,638.98 FUT-197 UPS up to 1500 VA Each	FUT-168		Each	\$ 1,722.00
FUT-171 72" Communication Cabinet Plexiglass Door w/Lock Each \$ 768.75 FUT-174 Communication Cabinet 16 POS Power strip 12" cord Each \$ 112.75 FUT-175 CM04, Cable management – interbay Each \$ 65.60 FUT-176 Half-height locking free standing Communication cabinet Each \$ 1,722.00 FUT-177 Rack Relay, 84"H x 19"W Double Sided Aluminium Each \$ 426.40 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 563.75 FUT-186 1 1/4" x 2" x 12" Grounding Busbar Each \$ 57.30 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers and Certification Testers Each \$ 18,450.00 FUT-195 UPS up to 6000 VA Each \$ 1,638.98 FUT-196 UPS up to 3000 VA Each \$ 1,638.98 FUT-197 UPS up to 1500 VA Each \$ 1,419.63 FUT-198 UPS up to 1500 VA Each \$ 1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each <t< td=""><td>FUT-169</td><td></td><td>Each</td><td>\$ 112.75</td></t<>	FUT-169		Each	\$ 112.75
FUT-174 Communication Cabinet 16 POS Power strip 12" cord Each \$ 112.75 FUT-175 CM04, Cable management – interbay Each \$ 65.60 FUT-176 Half-height locking free standing Communication cabinet Each \$ 1,722.00 FUT-177 Rack Relay, 84"H x 19"W Double Sided Aluminium Each \$ 426.40 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 15.36 FUT-186 1 1/4" x 2" x 12" Grounding Busbar Each \$ 57.30 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers and Certification Testers FUT-195 UPS up to 6000 VA Each \$ 1,638.98 FUT-197 UPS up to 3000 VA Each \$ 1,419.63 FUT-198 UPS up to 1500 VA Each \$ 1,204.38 FUT-199 UPS up to 1000 VA Each \$ 1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 85.08 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-204 Cable Ties (Black) (100 pk) Each \$ 3.74 FUT-205 J hook Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A Cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-170	Communication cabinet 19" Rack Mounting Shelf	Each	\$ 205.00
FUT-175 CM04, Cable management – interbay Each \$ 65.60 FUT-176 Half-height locking free standing Communication cabinet Each \$ 1,722.00 FUT-177 Rack Relay, 84"H x 19"W Double Sided Aluminium Each \$ 426.40 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 15.36 FUT-186 1 1/4" x 2" x 12" Grounding Busbar Each \$ 57.30 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers and Certification Testers Each \$ 18,450.00 FUT-195 UPS up to 6000 VA Each \$ 4,516.15 FUT-196 UPS up to 3000 VA Each \$ 1,638.98 FUT-197 UPS up to 1500 VA Each \$ 1,419.63 FUT-198 UPS up to 1000 VA Each \$ 1,009.63 FUT-209 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 1,009.63 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45	FUT-171	72" Communication Cabinet Plexiglass Door w/Lock	Each	\$ 768.75
FUT-176 Half-height locking free standing Communication cabinet Each \$ 1,722.00 FUT-177 Rack Relay, 84"H x 19"W Double Sided Aluminium Each \$ 426.40 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 15.36 FUT-186 11/4" x 2" x 12" Grounding Busbar Each \$ 57.30 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers Each \$ 18,450.00 and Certification Testers FUT-195 UPS up to 6000 VA Each \$ 1,638.98 FUT-197 UPS up to 2000 VA Each \$ 1,419.63 FUT-198 UPS up to 1500 VA Each \$ 1,204.38 FUT-199 UPS up to 1000 VA Each \$ 1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 136.84 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 3.74 FUT-204 Cable Ties (Black) (100 pk) Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable	FUT-174	Communication Cabinet 16 POS Power strip 12" cord	Each	\$ 112.75
FUT-177 Rack Relay, 84"H x 19"W Double Sided Aluminium Each \$ 426.40 FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 15.36 FUT-186 1 1/4" x 2" x 12" Grounding Busbar Each \$ 57.30 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers and Certification Testers FUT-195 UPS up to 6000 VA Each \$ 1,638.98 FUT-196 UPS up to 2000 VA Each \$ 1,638.98 FUT-197 UPS up to 1500 VA Each \$ 1,419.63 FUT-198 UPS up to 1500 VA Each \$ 1,009.63 FUT-199 UPS up to 1000 VA Each \$ 1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 85.08 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$ 3.74 FUT-205 J hook Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A Cable (SHELDED) Each \$ 1.13 FUT-209 Cat. 6 A Cable (SHELDED) Each \$ 1.13 FUT-209 Cat. 6 A Cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable	FUT-175	CM04, Cable management – interbay	Each	\$ 65.60
FUT-178 Mighty Moe type Rack Each \$ 563.75 FUT-185 3/8-16 Fully Threaded Rod, 6ft Lgth Each \$ 15.36 FUT-186 1 1/4" x 2" x 12" Grounding Busbar Each \$ 57.30 FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers and Certification Testers Each \$ 18,450.00 FUT-195 UPS up to 6000 VA Each \$ 4,516.15 FUT-196 UPS up to 3000 VA Each \$ 1,638.98 FUT-197 UPS up to 2000 VA Each \$ 1,419.63 FUT-198 UPS up to 1500 VA Each \$ 1,204.38 FUT-199 UPS up to 1000 VA Each \$ 1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 85.08 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 29.11 FUT-204 Cable Ties (Black) (100 pk) Each \$ 3.74 FUT-205 J hook	FUT-176	Half-height locking free standing Communication cabinet	Each	\$ 1,722.00
FUT-185	FUT-177	Rack Relay, 84"H x 19"W Double Sided Aluminium	Each	\$ 426.40
FUT-186	FUT-178	Mighty Moe type Rack	Each	\$ 563.75
FUT-194 Fluke Cat 6 Tester - Fluke DTX Digital Cable Analyzers and Certification Testers FUT-195 UPS up to 6000 VA Each \$4,516.15 FUT-196 UPS up to 3000 VA Each \$1,638.98 FUT-197 UPS up to 2000 VA Each \$1,419.63 FUT-198 UPS up to 1500 VA Each \$1,204.38 FUT-199 UPS up to 1000 VA Each \$1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$85.08 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$136.84 FUT-202 Horizontal wire management 19" Each \$61.45 FUT-203 Velcro Ties (Roll of 100) Each \$81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$29.11 FUT-205 J hook Each \$3.74 FUT-206 faceplate Each \$3.23 FUT-207 Cat. 6 A Plenum cable Each \$0.99 FUT-208 Cat. 6 A cable PVC Each \$1.13 FUT-209 Cat. 6 A cable (SHELDED) Each \$1.13 FUT-210 RG-6 Coax cable	FUT-185	3/8-16 Fully Threaded Rod, 6ft Lgth	Each	\$ 15.36
### FUT-195 ### Certification Testers ### FUT-196 ### UPS up to 6000 VA ### Each ### 4,516.15 ### FUT-196 ### UPS up to 3000 VA ### Each ### 1,638.98 ### FUT-197 ### UPS up to 2000 VA ### Each ### 1,419.63 ### FUT-198 ### UPS up to 1500 VA ### Each ### 1,204.38 ### FUT-199 ### UPS up to 1000 VA ### Each ### 1,204.38 ### FUT-199 ### UPS up to 1000 VA ### Each ### 1,009.63 ### FUT-200 ### Horizontal Cable Manager, 2U Single Side with Cover ### Each ### 1,009.63 ### FUT-201 ### Vertical Cable Mgmt Channel (4" x 6"x 7") ### Each ### 1,36.84 ### FUT-202 ### Horizontal wire management 19" ### Each ### 1,36.84 ### FUT-203 **Velcro Ties (Roll of 100) ### Each ### 1,49 ### FUT-204 **Cable Ties (Black) (100 pk) ### Each ### 2,9.11 ### FUT-205 **J hook ### Each ### 3,74 ### FUT-206 ### faceplate ### Each ### 3,23 ### FUT-207 **Cat. 6 A Plenum cable ### Each ### 3,23 ### FUT-208 **Cat. 6 A cable PVC ### Each ### 0,99 ### FUT-209 **Cat. 6 A cable (SHELDED) ### Each ### 1,13 ### FUT-210 **RG-6 Coax cable **DEC ### 1,13 ### FUT-210 **RG-6 Coax cable **DEC ### 1,13 #### FUT-210 **RG-6 Coax cable **DEC ### 1,13	FUT-186	1 1/4" x 2" x 12" Grounding Busbar	Each	\$ 57.30
FUT-195 UPS up to 6000 VA Each \$ 4,516.15 FUT-196 UPS up to 3000 VA Each \$ 1,638.98 FUT-197 UPS up to 2000 VA Each \$ 1,419.63 FUT-198 UPS up to 1500 VA Each \$ 1,204.38 FUT-199 UPS up to 1000 VA Each \$ 1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 85.08 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$ 29.11 FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable (SHELDED) Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax	FUT-194		Each	\$ 18,450.00
FUT-197 UPS up to 2000 VA Each \$ 1,419.63 FUT-198 UPS up to 1500 VA Each \$ 1,204.38 FUT-199 UPS up to 1000 VA Each \$ 1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 85.08 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$ 29.11 FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable PPC 5 FT \$ 41.00	FUT-195		Each	\$ 4,516.15
FUT-198 UPS up to 1500 VA Each \$ 1,204.38 FUT-199 UPS up to 1000 VA Each \$ 1,009.63 FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 85.08 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$ 29.11 FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable	FUT-196	UPS up to 3000 VA	Each	\$ 1,638.98
FUT-199	FUT-197	UPS up to 2000 VA	Each	\$ 1,419.63
FUT-200 Horizontal Cable Manager, 2U Single Side with Cover Each \$ 85.08 FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$ 29.11 FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable	FUT-198	UPS up to 1500 VA	Each	\$ 1,204.38
FUT-201 Vertical Cable Mgmt Channel (4" x 6"x 7") Each \$ 136.84 FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$ 29.11 FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-199	UPS up to 1000 VA	Each	\$ 1,009.63
FUT-202 Horizontal wire management 19" Each \$ 61.45 FUT-203 Velcro Ties (Roll of 100) Each \$ 81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$ 29.11 FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-200	Horizontal Cable Manager, 2U Single Side with Cover	Each	\$ 85.08
FUT-203 Velcro Ties (Roll of 100) Each \$ 81.49 FUT-204 Cable Ties (Black) (100 pk) Each \$ 29.11 FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-201	Vertical Cable Mgmt Channel (4" x 6"x 7")	Each	\$ 136.84
FUT-204 Cable Ties (Black) (100 pk) Each \$ 29.11 FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-202	Horizontal wire management 19"	Each	\$ 61.45
FUT-205 J hook Each \$ 3.74 FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-203	Velcro Ties (Roll of 100)	Each	\$ 81.49
FUT-206 faceplate Each \$ 3.23 FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-204	Cable Ties (Black) (100 pk)	Each	\$ 29.11
FUT-207 Cat. 6 A Plenum cable Each \$ 0.99 FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-205	J hook	Each	\$ 3.74
FUT-208 Cat. 6 A cable PVC Each \$ 0.48 FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-206	faceplate	Each	\$ 3.23
FUT-209 Cat. 6 A cable (SHELDED) Each \$ 1.13 FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-207	Cat. 6 A Plenum cable	Each	\$ 0.99
FUT-210 RG-6 Coax cable per 250 FT \$ 41.00	FUT-208	Cat. 6 A cable PVC	Each	\$ 0.48
	FUT-209	Cat. 6 A cable (SHELDED)	Each	\$ 1.13
FUT-211 RG-6 Coax cable Plenum Cable Each \$ 0.69	FUT-210	RG-6 Coax cable	per 250 FT	\$ 41.00
	FUT-211	RG-6 Coax cable Plenum Cable	Each	\$ 0.69

FUT-212	F Connectors for RG6 Quadshield snap & seal	Each	\$ 0.68
FUT-213	Slotted Ducts, wall wiring, 2"x2"x6' (gray) 6 FT SECTION	Each	\$ 4.49

CABLING PACKAGE

Part Number: CPL-104-1 thru CPG-120-1 Cable Length: See part number Cable Type: Category 5, 4 pair Flame Rating: See part number

Surface Raceways: Yes

Customer: GSA/COMM. See part number

Project: CAT5 Wiring Generic that complies with industry standards.

Material

ITEM NO.	DESCRIPTION	QTY	UNIT
1	Faceplate; Duplex, flush-mount, ivory	**	ea
2	Outlet Dust Cover; ivory	**	ea
3	Backbox; surface mount, single gang	1	ea
4	Mounting Bracket; flush, sheet rock	1	ea
5	Cable; Category 5, LAN, 4 pair UTP	*	ft
6	Raceway; surface mount, ivory	**	ea
7	Cover Plate; duplex, ivory	**	ea
8	Label; 9mm	**	ea
9	Raceway Elbow, 90 degree	**	ea
10	Raceway Joint	**	ea
11	Patch cord category 5	**	ea
12	J Hook	**	ea
13	Patch panel port	**	ea
14	Rack and cable management	1	ea
15	Fasteners	1	lot
16	Cover clip	1	ea
17	Drop Ceiling Connector	1	ea
18	Data Jack; 8-conductor, ivory	**	ea
19	Station cable category 5	**	ea

^{**} Quantity is dependent on part numbers (number of drops per location)

^{*} Cable length varies with part number.

GSA PRICE LISTS Cabling Category 5E Installation Packages

Per Drop Cost

Number	Flame Rt.	No. Outlets	PRICE
CPL-104-1	PVC/RISER	1	\$248.56
CPL-105-1	Plenum	1	\$294.23
CPL-112-1	PVC/RISER	2	\$393.26
CPL-113-1	Plenum	2	\$484.59
CPL-120-1	PVC/RISER	3	\$510.82
CPL-125-1	Plenum	3	\$647.81
CPL-121-1	PVC/RISER	4	\$627.02
CPL-129-1	Plenum	4	\$809.68

Note: Per drop cost include all labor and material for the following tasks.

- 1) Install cable per EIA/TIA 568A and 569 standards.
- 2) Terminate modular jack and the patch panel.
- 3) Install raceways below ceiling.
- 4) Test link per EIA/TIA 568A TSB 67 standard.
- 5) Print test result and provide test report.
- 6) Print and install labels

GSA PRICE LIST Installation Packages Category 6 Cabling System

SIN 132-8

Per Drop Cost

Number	Flame Rt.	No. Outlets	Price
CPG-104-1			T
	PVC/RISER	1	\$372.84
CPG-105-1			
	Plenum	1	\$441.34
CPG-112-1			
	PVC/RISER	2	\$589.87
CPG-113-1			
	Plenum	2	\$726.87
CPG-117-1			
	PVC/RISER	3	\$766.23
CPG-119-1			
	Plenum	3	\$971.72
CPG-118-1			
	PVC/RISER	4	\$940.51
CPG-120-1			
	Plenum	4	\$1214.51

Note: Per drop cost include all labor and material for the following tasks.

- 1) Install cable per EIA/TIA 568A and 569 standards.
- 2) Terminate modular jack and the patch panel.
- 3) Install raceways below ceiling.
- 4) Test link per EIA/TIA 568A TSB 67 standard.
- 5) Print test result and provide test report.
- 6) Print and install labels

GSA PRICE LIST

SIN 132-8

ITEM	INSTALLATION DESCRIPTION UNIT			PRICE(\$)
			COLUMN DE LA COLUM	
INSIDE PLA				
CGIO-001	Cat5 Outlet (includes, 1 Jack, 1 Cat5 Cable)	OUTLET	\$	130.30
CGIO-002	Free Standing Rack	RACK	\$	72.97
CGIO-003	Wall Mounted Rack	RACK	\$	72.97
CGIO-004	Consolidation Point Enclosure	ENCLOSURE	\$	140.73
CGIO-005	Access Underfloor Pathway	OPENING	\$	130.30
CGIO-006	Fish thru Modular Furniture	OUTLET	\$	130.30
CGIO-007	Communications Pole (12 foot)	EA	\$	70.35
CGIO-008	Latching Duct, per outlet (6 foot section)	SEC	\$	23.45
CGIO-009	Cable Raceway (Flextray) (10' Foot Section)	SEC	\$	46.91
CGIO-010	EMT - 1"	FT	\$	1.83
CGIO-011	EMT - 2"	FT	\$	2.91
CGIO-012	EMT - 3"	FT	\$	5.06
CGIO-013	EMT - 4"	FT	\$	6.56
CGIO-014	Place NEMA Junction Box	BX	\$	140.73
CGIO-015	Core Drill, 3/4" Diameter, 6" Deep, Wood	EA	\$	30.23
CGIO-016	Core Drill, 2" Diameter, 6" Deep, Wood	EA	\$	66.71
CGIO-017	Core Drill, 4" Diameter, 6" Deep, Wood	EA	\$	89.65
CGIO-018	Core Drill, 1"Diameter x 8" Deep, Concrete or Block	EA	\$	39.49
CGIO-019	Core Drill, 2"Diameter x 8" Deep, Concrete or Block	EA	\$	84.90
CGIO-020	Core Drill, 4.5"Diameter x 8" Deep, Concrete or Block	EA	\$	113.52
CGIO-021	Test & Certify Existing Interior CAT5 Cable (4-pair)	CABLE	\$	23.45
CGIO-022	Test & Certify Existing Interior Fiber Strands	STRAND	\$	46.91
CGIO-023	Place Innerduct (10 foot section)	10-FT SEC	\$	15.11
CGIO-024	Place Copper (10 foot section) (50-pair or less)	10-FT SEC	\$	15.11
CGIO-025	Place Fiber (10 foot section)	10-FT SEC	\$	15.11
CGIO-026	Terminate Fiber (Single Strand)	STRAND	\$	46.91
CGIO-027	Punchdown Multi-pair Copper Cable (100-pair)	100-PR	\$	302.29
CGIO-028	Install Electrical Protection	50-PR	\$	93.81
CGIO-029	Install Wall Mounted Fiber Interconnect Panel	EA	\$	46.91
CGIO-030	Install Plywood Back Board	EA	\$	93.81
CGIO-031	Install Metal Shelf on Plywood Backboard or in Rack	EA	\$	23.45
CGIO-032	Install Fiber Optic Patch Panel (Large)	EA	\$	46.91
	Install Fiber Optic Patch Panel Components (for large			
CGIO-033	patch panel)	EA	\$	46.91
CGIO-034	Install Climate control split unit	ea.	\$	1,700.74
CGIO-035	Install Hotel/Motel types HVAC Unit	ea.	\$	1,700.74

CGIO-036	Install vents in equipment room door/wall	ea.	\$	764.78
CGIO-037	Install small rack mounted 110 volt unit	ea.	\$	306.13
CGIO-038	Install medium rack or free standing 110 volt unit	ea.	\$	356.61
CGIO-039	Install large free standing w/batteries for 1 hour backup, 220 volt unit	ea.	\$	1,594.30
CGIO-040	Furnish and install dedicated power, 120 volt, 20 amp, quad outlets, w. in line surge protection (in box) and disconnect switch.	ea.	\$	1,975.05
CGIO-041	Furnish and install dedicated power, 120 volt, 30 amp, quad outlets, w. in line surge protection (in box) and disconnect switch.	ea.	\$	1,975.05
CGIO-041	Furnish and Install dedicated power 208/220 volt, 30 Amp, twist lock outlet, w. disconnect.	ea.	\$	1,912.51
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DOCUME	ENTATION		Щ.,	
CGIO-042	Red-Line As Built Site Drawings	EA		\$364.84
CGIO-043	Cat5 UTP TSB-67, Method A Test Results	EA		\$364.84
CGIO-044	Fiber Optic EIA-526-7 Test Results	EA		\$364.84
CGIO-045	Fiber Optic OTDR Test Results	EA		\$364.84
CGIO-046	Site Cabling Administrative Records	EA		\$364.84

GSA Price List

SIN 132-8

Item	Description	Material. Incl. y/n	Unit	Price
OP-001-1	Mobilization	n	ea	\$1591.89
OP-002-1	Open trench 36" deep X 18" wide	n	ft	\$15.92
OP-003-1	Place 4" schedule 40 PVC	у	ft	\$5.05
OP-004-1	Place second conduit	У	ft	\$3.46
OP-005-1	Each additional conduit	У	ft	\$2.66
OP-006-1	Road cut	n	sq. ft.	\$12.74
OP-007-1	Directional bore(pull back one 4" conduit)	У	ft.	\$58.19
OP-008-1	Place 12'X6'X7' manhole	У	ea	\$12278.23
OP-009-1	Place 4'X4'X4' manhole	у	ea	\$6337.72
OP-010-1	Place 4'X6'X7' manhole	у	ea	\$9455.00
OP-011-1	Core drill 4" building entrance (masonry) 12" max.	n	ea	\$318.38
OP-012-1	Manhole 4" core drill(pre cast)	n	ea	\$238.78
OP-013-1	Hang NEMA 3 R Box 24"X24"X8'	У	ea	\$552.06
OP-014-1	Pull fiber cable in conduit	n	ft	\$2.39
OP-015-1	Place fiber cable in open trench	n	ft	\$1.60
OP-016-1	Place copper cable in conduit	n	ft	\$1.60
OP-017-1	Copper splicing	у	pr.	\$3.18
OP-018-1	Fiber splicing(To include all material)	У	ea	\$95.52
OP-019-1	Place 72 port LIU(include label and assy.)	n	ea	\$31.84
OP-020-1	Place 100A 24 port(include label and assy.)	n	ea	\$20.82
OP-021-1	Copper termination	n	pr.	\$3.18
OP-022-1	Place 19" rack	У	ea	\$335.76
OP-023-1	Hang cabinet	n	ea	\$197.51
OP-024-1	Hang 100 pr. protection	n	ea	\$79.00
OP-025-1	Install 1" EMT	У	ft.	\$6.02
OP-026-1	Install 2" EMT	У	ft	\$9.45
OP-027-1	Install 3" EMT	У	ft	\$15.86
OP-028-1	Install 4" EMT	у	ft	\$17.42
OP-029-1	Install junction box	n	ea	\$91.84
OP-030-1	Install 1" IMT	у	ft	\$7.66
OP-031-1	Install 2" IMT	У	ft	\$12.17

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OP-032-1	Install 3" IMT	у	ft	\$17.73
OP-033-1	Install 4" IMT	у	ft	\$23.21
OP-034-1	Install 2" Rigid	у	ft	\$14.65
OP-035-1	Install 3" Rigid	у	ft	\$27.98
OP-036-1	Install 4" Rigid	у	ft	\$37.86
OP-037-1	Install 2" PVC	У	ft	\$6.75
OP-038-1	Install 3" PVC	у	ft	\$11.58
OP-039-1	Install 4" PVC	у	ft	\$15.14
OP-040-1	Rock excavation	n ,	cu. ft.	\$6.36
OP-041-1	Jack and bore 12" to include casing	у	lf	\$239.20
	Plow cable - Short Distance (up			
OP-042-1	to 1000')	n	ft	\$8.93
OP-043-1	Plow Cable - Long Distance (over 1000')	n	ft	\$7.02
OP-044-1	Plow Additional Cable/Split Duct	n	ft	\$2.81
OP-045-1	Trench cable - Short Distance (Up to 1000')	n	ft	\$15.00
OP-046-1	Trench cable - Long Distance (Over 1000')	n	ft	\$11.99
	Place additional cable			
OP-047-1	simultaneously with first cable	n	ft	\$2.81
OP-048-1	Hand digging >5 feet	n	cubic ft	\$23.22
OP-049-1	Place cable/conduit by backhoe method	n	ft	\$17.75
OP-050-1	Install 9-way 4" PVC/PE direct buried 4" concrete encased with minimum 24" cover	n	ft	\$83.93
OP-051-1	Install 6-way 4" PVC/PE direct buried 4" concrete encased with minimum 24" cover	n	ft	\$56.16
OP-052-1	Install 4-way 4" PVC/PE direct buried 4" concrete encased with minimum 24" cover	n	ft	\$42.02
OP-053-1	Install 2-way 4" PVC/PE direct buried 4" concrete encased with minimum 24" cover	n	ft	\$29.23
<u> </u>	Install 9-way 4" PVC/PE direct			· · ·
OP-054-1	buried with minimum 24" cover	n	ft	\$53.63
OP-055-1	Install 6-way 4" PVC/PE direct buried with minimum 24" cover	n	ft	\$35.96
OP-056-1	Install 4-way 4" PVC/PE direct buried with minimum 24" cover	n	ft	\$28.55
O1 030-1		- 11	11	Ψ20.00
OP-057-1	Install 2-way 4" PVC/PE direct buried with minimum 24" cover	n	ft	\$22.50
OP-058-1	Install 1 - 4" PVC/PE direct buried with minimum 24" cover	n	ft	\$15.39
OP-059-1	Install 2-2" PVC/PE direct buried with minimum 24" cover	n	ft	\$18.11
OP-060-1	Install 1-2" PVC/PE direct buried with minimum 24" cover	n	ft	\$15.05

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OP-061-1	Install 1-way 4" PE pipe by directional drilling method	n	ft	\$55.87
OP-062-1	Install 2-way 4" PE pipe by directional drilling method	n	ft	\$102.04
OP-063-1	Install 4-way 4" PE pipe by directional drilling method	n	ft	\$203.62
OP-064-1	Bore and place 1-4" GIP	n	ft	\$55.87
OP-065-1	Bore and place 2-4" GIP	n	ft	\$112.25
OP-066-1	Bore and place 10" casing	n	ft	\$331.65
	·		ft	
OP-067-1	Bore and place 12" casing Labor to install fiberglass	n	IL.	\$380.12
OP-068-1	handhole 4' x 4' x 4'	n	ea.	\$2806.22
OP-069-1	Labor to install fiberglass handhole 3' x 5' x 4'	n	ea.	\$3061.33
OP-070-1	Labor to install fiberglass handhole 5' x 5' x 4'	n	ea.	\$3953.39
OP-071-1	Labor to install traffic rated pre- cast concrete handhole, any size	n	ea.	\$4719.27
OP-072-1	Labor to install pre-cast concrete manhole 12' x 6' x 7'	n	ea.	\$7397.66
OP-073-1	Labor to install pre-cast concrete multi-directional manhole 12' x 6' x 7' Labor to install pre-cast concrete multi-directional	n	ea.	\$7397.66
OP-074-1	manhole 12' x 6' x 10'	n	ea.	\$10458.99
OP-075-1	Install manhole racking	n	ea.	\$445.48
OP-076-1	Manhole Setup	n	ea.	\$637.50
OP-077-1	Install splice closure (includes cable prep)	n	ea.	\$555.21
OP-078-1	Fusion splice 1 fiber (SM or MM includes cable prep)	n	ea.	\$59.25
OP-079-1	SET UP AND BREAKOUT OSP FIBER CABLE (24str)	n	per cable	\$223.84
OP-080-1	STRAIGHT SPLICE COPPER CABLE	n	pair	\$2.22
OP-081-1	Branch Splice	n	pair	\$2.22
OP-082-1	TAG PAIRS	n	pair	\$0.97
00.000.4	CABLE TRANSFER IN			CO 40
OP-083-1	WORKING CABLE	n	per pair	\$3.19
OP-084-1	SECTION TRANSFER	n	per pair	\$3.50
OP-085-1	Acceptance testing for copper cable	n	per pair	\$5.55
OP-086-1	OTDR test and document single strand of fiber (both ways at 1310nm and 1550nm)	n	per strand	\$38.91
OP-087-1	Power Meter/Light Source test and document single strand of fiber (both ways at 1310nm and 1550nm)	n	per strand	\$22.96

	Place inner duct/Maxcel in			
	existing 4" duct up to 4 inner			
OP-088-1	ducts	n	ft	\$4.08
OP-089-1	Place Cable in conduit/innerduct	n	ft	\$2.81
01 003 1	Place 1 to 300 pair in		11	Ψ2.01
OP-090-1	duct/conduit	n	ft	\$6.78
	Place 400 to 900 pair in			70110
OP-091-1	duct/conduit	n	ft	\$8.42
	Place 1200 to 1800 pair in			
OP-092-1	duct/conduit	n	ft	\$10.45
	Place 2100 to 2700 pair in		_	
OP-093-1	duct/conduit	n	ft	\$12.90
OD 004 1	Place 3000 to 3600 pair in duct/conduit	n	£4	¢45.04
OP-094-1	Place Fiber in duct/conduit (all	n	ft	\$15.31
OP-095-1	sizes)	n	ft	\$2.17
01 000 1	Pneumatic rodding conduit		- 10	Ψ2.17
OP-096-1	place pull rope/tape	n	ft	\$2.81
OP-097-1	Rod conduit with existing cable	n	ft	\$3.21
OP-098-1	Core drill manhole	n	ea.	\$573.86
OP-099-1	Core drill building entrance	n	ea.	\$445.48
01 000 1	Cut and restore concrete		ca.	ψττυ.τυ
OP-100-1	(includes material)	n	cu. Yd.	\$1755.60
	Cut and restore asphalt 2"			***************************************
OP-101-1	increments (includes material)	n	sq. ft	\$35.11
01 101 1	Install up to 24" x 24" x 12"			φοσ.ττ
OP-102-1	Junction Box	у	ea.	\$318.20
OP-103-1	Install 8' copper clad ground rod	n	ea.	\$52.67
	Place Pedestal - Any Size -			, ,
OP-104-1	stake or pole mounted	n	ea.	\$182.14
<u> </u>	Cut Rock up to 12" deep x 6"			V.02
OP-105-1	wide	n	ft	\$25.24
	Cut Rock Additional 6" width or			
OP-106-1	12" depth	n	ft	\$25.24
	Remove Cable from existing		<u>.</u> .	
OP-107-1	duct	n	ft	\$2.81
OP-108-1	Place Sod 24"x12" area	n	ea.	\$62.54
OD 400 4	Install raceway for in room fiber		£	Фо оо
OP-109-1	runs	n	ft	\$8.23
05.440.4	Pull building fiber from building			#0.50
OP-110-1	POE to closet LIU (per ft)	n	ft	\$3.58
OP-111-1	Place up to 35' pole	n	ea.	\$58.15
OP-112-1	Place over 35' pole	n	ea.	\$959.00
OP-113-1	Place up to 35' push brace	n	ea.	\$604.58
OP-114-1	Place over 35' push brace	n	ea.	\$959.00
	Additional charge for setting			
OP-115-1	pole in rock	n	ea.	\$535.46
OP-116-1	Remove up to 35' pole	n	ea.	\$226.03
OP-117-1	Remove over 35' pole	n	ea.	\$279.80
OP-118-1	Remove up to 35' push pole	n	ea.	\$226.03
OP-119-1	Remove over 35' push pole	n	ea.	\$279.80
OP-120-1	TRANSFER ATTACHMENTS	n	ea.	\$149.23
OP-121-1	PLACE ANCHOR AND GUY (all	n	ea.	\$356.61

	types/sizes)			
	PLACE ANCHOR AND GUY IN			
	ROCK OR ADVERSE SOIL (all			
OP-122-1	types/sizes)	n	ea.	\$535.46
OP-123-1	REMOVE ANCHOR AND GUY	n	ea.	\$120.70
OF-123-1	PLACE STRAND/MESSENGER	11	ea.	Ψ120.70
OP-124-1	- ANY SIZE	n	ft	\$1.31
01 124 1	REMOVE		11	Ψ1.51
	STRAND/MESSENGER - ANY			
OP-125-1	SIZE	n	ft	\$0.59
01 120 1	Install 1 to 300 pair, lash to		"	ψο.σσ
OP-126-1	messenger	n	ft	\$2.84
00 .	Install 400 to 900 pair, lash to			V
OP-127-1	messenger	n	ft	\$3.25
_	Install 1200 to 1800 pair, lash to		-	*
OP-128-1	messenger	n	ft	\$5.96
	Install 2100 to 2700 pair, lash to			
OP-129-1	messenger	n	ft	\$9.59
	Install 3000 to 3600 pair, lash to			
OP-130-1	messenger	n	ft	\$10.97
	Install any fiber optic cable, lash			
OP-131-1	to messenger	n	ft	\$2.50
	Labor to overlash 1 to 300 pair			
OP-132-1	cable	n	ft	\$3.09
	Labor to overlash 400 to 900			
OP-133-1	pair cable	n	ft	\$3.61
	Labor to overlash 1200 to 1800			
OP-134-1	pair cable	n	ft	\$6.78
	Labor to overlash 2100 to 2700			
OP-135-1	pair cable	n	ft	\$9.88
	Labor to overlash 3000 to 3600			
OP-136-1	pair cable	n	ft	\$11.74
	Labor to overlash any fiber optic			
OP-137-1	cable	n	ft	\$2.81
07.400.4	Remove up to 3600 pair aerial			0001
OP-138-1	copper cable	n	ft	\$2.81
OP-139-1	Remove any fiber optic cable	n	ft	\$1.33
OP-140-1	PLACE HOUSE/BLOCK CABLE	n	ft	\$95.46
	Place Innerduct (10 foot			
OP-141-1	section)	n	10-FT SEC	\$26.06
OP-142-1	Place Fiber (10 foot section)	n	10-FT SEC	\$22.72
OP-143-1	Terminate Fiber (Single Strand)	n	STRAND	\$49.38
OP-144-1	Rod/Prove/Install Pull Tape	n	FT	\$2.18
01 1-7-7-1	Manhole Pumping, Average		1 1	Ψ2.10
OP-145-1	Water Level	n	EA	\$208.48
01 110 1	Manhole Pumping, High Water			Ψ <u></u> 200.π0
OP-146-1	Level	n	EA	\$312.72
OP-147-1	Manhole Gas Certification	n	EA	\$260.60
			1	
OP-148-1	Conduit Repair (4-foot section)	n	SEC	\$364.84
OD 440.4	Pull Copper Cable in Conduit	n		¢2.27
OP-149-1	(100 Pr)	n	FT	\$2.27
OD 450 4	Fiber Splicing, includes all	n	E^	¢02.04
OP-150-1	materials Copper Splicing, includes all	n	EA	\$93.81
OP-151-1		n	PR	\$3.02
06-101-1	materials	n	ΓK	φ3.02

OP-152-1		Test & Certify Existing Outside Fiber Strands	n	STRAND	\$46.91
Document					
OP-153-1	Red-Line As	Built Site Drawings	n	EA	\$364.84
OP-154-1	Cat5 UTP TSB-67, Method A Test Results		n	EA	\$364.84
OP-155-1 Fiber Optic EIA-526-7 Test Results		n	EA	\$364.84	
OP-156-1	Fiber Optic C	OTDR Test Results	n	EA	\$364.84
OP-157-1	Site Cabling	Administrative Records	n	EA	\$364.84

GSA PRICE LIST NETWORK ELECTRONICS (material only) SIN 132-8

ITEM	DESCRIPTION	UNIT	PRICE(\$)
	•		
Routers			
NEG-001-1	Small Office Router	ea	\$ 1,895.25
NEG-002-1	Edge moduler router	ea	\$ 17,057.25
NEG-003-1	Firewall Appliance	ea	\$ 29,281.61
NEG-004-1	Secured Communications Appliance	ea	\$ 16,109.63
NEG-005-1	Router	ea	\$ 22,269.19
NEG-006-1	Fiber Module, SM	ea	\$ 4,439.62
NEG-007-1	Fiber Module, MM	ea	\$ 2,553.85
NEG-008-1	SOHO Router, 10/100 Ports	ea	\$ 804.53
NEG-009-1	CSU/DSU	ea	\$ 946.68
NEG-010-1	Small Firewall Appliance	ea	\$ 14,214.38
NEG-011-1	Network Expansion Module	ea	\$ 7,500.00
NEG-012-1	Ethernet Expansion Module	ea	\$ 8,100.00
NEG-016-1	VPN Expansion Module	ea	\$ 39,850.13
NEG-020-1	Management Appliance	ea	\$ 13,456.28
NEG-022-1	MUX, BRI/PRI/T1	ea	\$ 2,653.35
NEG-023-1	VPN Bundle Router	ea	\$ 5,590.99
<u>Switches</u>			
NEG-025-1	Up to 24 Port Switch	ea	\$ 6,633.38
NEG-026-1	Management Module for Core Switch	ea	\$ 9,471.51
NEG-027-1	up to 48 Port Fiber Optic MTRF Module	ea	\$ 13,250.00
NEG-028-1	up to 24 Port Switch,GBIC Ports	ea	\$ 9,471.51
NEG-029-1	up to 48 Port Switch	ea	\$ 1,605.98
NEG-030-1	up to 48 Port Switch	ea	\$ 6,628.64
NEG-031-1	up to 24 Port Switch	ea	\$ 4,733.39
NEG-032-1	Closet Switch, Modular	ea	\$ 11,821.62
NEG-033-1	Port Power Over Ethernet (POE) Module	ea	\$ 600.00
NEG-034-1	up to 24 Port Switch	ea	\$ 1,132.41
NEG-035-1	Wireless LAN Module	ea	\$ 23,000.00

NEG-036-1	up to 9 Slot Modular Switch	ea	\$	59,695.64
NEG-037-1	up to 6 Slot Modular Switch	ea	\$	28,428.75
NEG-038-1	up to 48 Port Switch, 4 GBIC Ports	ea	\$	18,947.76
NEG-039-1	up to 12 Multi-Layer Switch	ea	\$	7,581.00
NEG-040-1	up to 24 Port POE Switch	ea	\$	2,274.30
NEG-041-1	Firewall Module	ea	\$	28,424.01
NEG-042-1	Closet Switch, Chassis	ea	\$	7,581.00
NEG-043-1	48 Port Module	ea	\$	15,995.91
NEG-044-1	Power Supply Module	ea	\$	4,259.57
NEG-045-1	Single Mode Module	ea	\$	3,311.95
NEG-046-1	Rack Server	ea	\$	4,215.98
<u>Switches</u>				
NEG-049-1	Wireless PC Card	ea	\$	200.00
NEG-050-1	54 Megabit PC Card	ea		
			Φ.	440.00
NEG-051-1	11 Megabit PC Card	ea	\$ \$	110.00
NEG-052-1	Wireless Broadband Router	ea		70.00
NEG-056-1	Access Point	ea	\$ \$	146.19 942.89
NEG-057-1	Access Point Large Area	ea	\$	1,606.22
NEG-058-1	Directional Antenna	ea	\$	1,321.94
NEG-059-1	Omni Directional Antenna	ea	\$	935.31
NEG-060-1	Wireless LAN Bridge	ea	\$	900.00
NEG-061-1	Wireless Site Survey 1 Day	ea	\$	2,364.32
NEG-062-1	Wireless Site Survey – Additional per day price	ea	\$	1,511.46
NEG-063-1	801.11a,b,g Access Point	ea	\$	852.86
NEG-064-1	User License	ea	\$	473.81
NEG-068-1	Wireless Bridge	ea	\$	9,250.00
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NOTE: Interface module sold separately.

In some products memory options, network processing engine and software sold separately. Installation not included.

VIDEO TELECONFERENCING

SIN 132-8

ITEM	STATEMENT of WORK	UNIT	PRICE(\$)
	White Board for Data Conferencing(engineering, installation, and material)		
VTG-001-1	Interactive White Board	ea	\$ 8,500.00
VTG-002-1	LCD Projector	ea	\$ 9,500.00
	Point-to-Point VTC System(engineering, installation, and material) Maintenance pricing is not included in the price unless otherwise noted. Maintenance is required to be purchased on all video VTC units and Codecs		
VTG-005-1	Dual Monitor Cart Solution with Codec	ea	\$ 37,500.00
VTG-007-1	Document Camera	ea	\$ 4,700.00
VTG-008-1	Display Cart for VTC Units with Codec Shelf	ea	\$ 5,500.00
VTG-011-1	CSU/DSU	ea	\$ 5,034.00
VTG-012-1	Network/Video device deployment	ea	\$ 6,159.00
VTG-013-1	Video Cabinet with mounting rails and shelves	ea	\$ 5,400.00
VTG-014-1	ISDN/BRI Interface	ea	\$ 14,300.00
VTG-019-1	Up to 65" Display with Installation	ea	\$ 12,000.00
VTG-020-1	Up to 37" Display with Installation Kit	ea	\$ 2,600.00
VTG-021-1	Up to 55" Display with Installation Kit	ea	\$ 11,000.00
VTG-022-1	Video Cart for CODEC and Monitor	ea	\$ 3,300.00
VTG-023-1	Extra Camera for VTC Rooms with Power Supply	ea	\$ 4,395.00
VTG-024-1	Professional Audio Sound System Includes Speakers and Centralized Control unit	ea	\$ 5,000.00
VTG-025-1	IP Only Video Codec and Monitor/Executive Solution	ea	\$ 8,795.00
VTG-028-1	Blue Ray Player	ea	\$ 300.00
VTG-029-1	Small-Capacity Video Infrastructure	ea	\$ 49,000.00
VTG-030-1	Video Gateway	ea	\$ 40,000.00
VTG-031-1	Large-Capacity Video Infrastructure	ea	\$ 79,000.00
VTG-035-1	Video/Room Scheduling Software Package	ea	\$ 9,500.00
VTG-036-1	Small Room Codec	ea	\$ 19,990.00
VTG-038-1	Network Gatekeeper	ea	\$ 10,990.00
VTG-039-1	Large Capacity Video Codec environment, includes audio and video inputs and encryption	ea	\$ 20,990.00
VTG-043-1	Cable Raceway for perimeter and under table wiring of AV control(s)	ea	\$ 7,130.00

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	CSU/DSU Chassis based solution with multiple card		
VTG-044-1	interfaces	ea	\$ 10,900.00
VTG-045-1	Personalized Desktop Video Package	ea	\$ 11,200.00
	Ceiling Mounted Microphone Package, includes mounting		
VTG-046-1	hardware	ea	\$ 3,500.00
VTG-047-1	Collaboration Package	ea	\$ 19,990.00
VTG-048-1	Cables, connectors, etc.	Lot	\$ 2,500.00
VTC 052.4	Up to 5 VTC rooms on one campus, includes wiring, VTC		\$ 200.760.00
VTG-053-1	equipment, cables, peripherals, monitors Up to 10 VTC rooms on one campus, includes wiring, VTC	ea	\$ 299,760.00
VTG-054-1	equipment, cables, peripherals, monitors	ea	\$ 416,780.00
VTG-056-1	Desktop Video System	ea	\$ 4,500.00
VTG-057-1	12" LCD Remote Control Display with Cable	ea	\$ 9,495.00
	Set top Codec, cable of integration into existing screen,		
VTG-058-1	projector, or monitor solutions	ea	\$ 7,495.00
VTG-059-1	Individual Video Monitor and Camera	ea	\$ 10,495.00
VTG-060-1	Acoustical Wall Panels and mounting hardware	Lot	\$ 9,900.00
VTG-062-1	Network Termination Equipment (4)	ea	\$ 660.00
VTG-063-1	Network Termination Equipment (3)	ea	\$ 320.00
VTC 070 1	Customized Video Credenze		¢ 40,000,00
VTG-070-1 VTG-071-1	Customized Video Credenza	ea Lot	\$ 10,999.00 \$ 13,999.00
V1G-0/1-1	Conference Room Lighting Control	LOI	р 13,999.00
VTG-076-1	Portable, monitor, Codec, fully enclosed in hardened case emergency video teleconferencing system	ea	\$ 23,995.00
V10 070 1	Cinergonoy video teleconicioning system	Ca	Ψ 20,330.00
VTG-081-1	Dual Monitor Video Teleconferencing System	ea	\$ 55,825.00
VTG-091-1	Dual Screen mobile video	ea	\$ 31,000.00
	Video Professional Services		
	Staging Fee for 1 Video Conference Unit (CONUS), Staging		
VTG-097-1	Includes Product Testing, Documentation, Freight to Site	ea	\$ 2,500.00
\/TC 000 4	Staging Fee for 1 Video Conference Unit (OCONUS) Staging		Ф 0.000.00
VTG-098-1	Includes Product Testing, Documentation, Freight to Site	ea	\$ 6,000.00
	Staging Fee for 50-100 Video Conference Units (CONUS)		
VTG-099-1	Staging Includes Product Testing, Documentation, Freight to Site	ea	\$ 15,000.00
V10 000 1	Video Survey for 1 site up to 20 endpoints (CONUS), includes	Cu	Ψ 10,000.00
	survey of current endpoint, network, and product		
VTG-100-1	recommendations	ea	\$ 12,500.00
	Programming of Extron/Crestron/AMX Remote for one		
VTG-101-1	conference room only	ea	\$ 14,400.00
VTG-103-1	Training 1 Site by Video Engineer (Conus)	ea	\$ 10,395.00
VTG-104-1	Training 1 Site by Video Engineer (OCONUS)	ea	\$ 19,946.00
VTO 405.4	Conforma Doors Deficiel labilities		¢ 20,200,00
VTG-105-1	Conference Room Refurbishing	ea	\$ 30,300.00
VTG-106-1	Video Assessment with Subject Matter Expert)	ea	\$ 44,645.00
VTG-107-1	Video and Audio Visual Consulting Engagement)	ea	\$ 42,995.00

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VTG-108-1	Mobile VTC solution	ea	\$ 32,995.00
VTG-109-1	Display with wall mount or floor mount apparatus	ea	\$ 17,995.00
VTG-114-1	Portable VTC System	ea	\$ 25,000.00
VTG-115-1	Installation of VTC systems (CONUS)	ea	\$ 2,500.00
VTG-116-1	Installation of VTC systems (OCONUS)	ea	\$ 13,308.25
VTG-117-1	Installation of VTC systems includes VTC System, Separate Monitors, Ceiling Microphones, Cabling, Training (CONUS)	ea	\$ 14,744.65
VTG-118-1	Installation and Training of scheduling software on the network, includes server configuration	ea	\$ 11,991.55
VTG-119-1	Installation of Crestron/AMX, remote AV controller for a single room, includes programming(CONUS)	ea	\$ 13,308.25
VTG-120-1	Installation and Training of scheduling software on the network, includes server(OCONUS)	ea	\$ 14,744.65
VTG-121-1	Installation of network peripherals to support ISDN to IP or IP video calls, Senior Level Systems Engineer on site(CONUS)	ea	\$ 13,551.00
VTG-122-1	Installation of network peripherals to support ISDN to IP or IP video calls, Senior Level Systems Engineer on site (OCONUS)	ea	\$ 14,868.00
VTG-123-1	Installation of Crestron/AMX, remote AV controller for a single room, includes programming(OCONUS)	ea	\$ 16,304.00
VTG-124-1	Installation of remote camera	ea	\$ 2,780.00
VTG-125-1	Installation of recessed network plugs in wall or floor	ea	\$ 4,200.00
VTG-126-1	Installation of one VTC endpoint	ea	\$ 3,500.00
VTG-127-1	Installation of one VTC endpoint (OCONUS)	ea	\$ 8,000.00
VTG-128-1	Video Infrastructure Configuration and Installation	ea	\$ 11,995.00
VTG-129-1	Staging of VTC Equipment (11-20 endpoints CONUS)	ea	\$ 10,275.00
VTG-130-1	Staging of VTC Equipment (1-10 endpoints CONUS)	ea	\$ 9,200.00
VTG-131-1	Staging of VTC Equipment (11-20 endpoints OCONUS)	ea	\$ 11,825.00
VTG-132-1	Staging of VTC Equipment (1-10 endpoints OCONUS)	ea	\$ 10,689.00
VTG-133-1	One Day of Troubleshooting On Site	ea	\$ 2,300.00
VTG-134-1	Design Engineering for VTC/AV systems single room (CONUS)	ea	\$ 3,525.00
VTG-135-1	Design Engineering for VTC/AV systems single room (OCONUS)	ea	\$ 4,889.00
VTG-180-2	DLP Three Chip-Projector Kit	ea	\$ 38,106.24
VTG-181-2	Up to 82" Display	ea	\$ 28,700.00
VTG-180-3	Up to 110" Display/Video Wall Kit	ea	\$ 45,100.00
VTG-181-3	HD Camera	ea	\$ 4,611.56

VTG-180-4	Video Wall Bundle	ea	\$ 328,569.79
VTG-181-4	Single Monitor Video Cart with Codec	ea	\$ 17,029.62
VTG-180-5	Speakers Wall Mountable or Ceiling Mountable (Pair)	ea	\$ 235.91
VTG-181-5	Microphone Table with cable and mounting kit	ea	\$ 230.30
VTG-180-6	Audio Amp	ea	\$ 804.35
VTG-181-6	Audio mixer	ea	\$ 1,908.66
VTG-180-7	Video Switch	ea	\$ 48,276.30
VTG-180-7	Table Box for PC Connection Includes Connectors	ea	\$ 3,314.03
V1G-101-7	PC Connection with Wall Plate	Ca	\$ 823.83
VTG-1808	To connection with wait late	ea	023.03
VTG-181-8	Rackmount Power Conditioners	ea	\$ 683.87
VTG-180-9	Projection Screen and Mounting Hardware Kit	ea	\$ 18,723.33
VTG-181-9	Projector Kit (pole, mounting bracket)	ea	\$ 362.37
VTG-181-9	Technology Conference Suite	ea	\$ 19,785.58
VTG-180-10	PC for Use with Network and Presentations		\$ 2,460.00
VTG-181-10 VTG-180-1	Large Interactive Whiteboard	ea	\$ 70,549.52
	<u> </u>	ea	
VTG-181-1	DLP Single Chip-Projector Kit	ea	
VTG-181-59	40g Optical Interface Card	ea	\$ 131,200.00
	Maintenance of VTC Systems (CONUS)		
VTG-136-1	Standard Maintenance 15% of total list price of all VTC equipment and peripherals	Lot	15% of Total List Price
V1G-130-1	equipment and peripherals	LOI	13 % Of Total List File
	Standard Maintenance Plan		
	The Standard Maintenance Plan is designed for customers who		
	install and maintain their own networks. It is the ideal choice for		
	install and maintain their own networks. It is the ideal choice for customers who need responsive technical assistance. This plan		
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	Annual Preventive Maintenance Visit		
	Call history tracking and annual remorting		
	 Call history tracking and annual reporting Direct interface support to local or long distance carrier and/or 		
	network provider		
	Equipment re-locations, additions, or reconfigurations (See		
	NOTES below.)		
	NOTES		
	1. The Standard Maintenance Plan provides a discount for equipment re- locations, additions, and reconfigurations.		
	Requests for equipment re-locations, additions, or reconfigurations must		
	be provided to YTC for review at least 10 business days prior to the		
	requested work date.		
	Enhanced Maintenance 220/ of total list price of all VTC		
	Enhanced Maintenance 23% of total list price of all VTC equipment and peripherals	Lot	23% of Total List Price
	- oquipmont and poripriorate		2070 OF FORM EIGHT FIDE
VTG-137-1	Enhanced Maintenance Plan		
	The Enhanced Maintenance Plan provides comprehensive		
	maintenance and support for customers who require a high level of		
	responsiveness and on-site support. It is the ideal choice for		
	customers running large enterprise communications networks. The Enhanced Maintenance Plan provides the following services:		
	Telephone support provided by Futron Monday through Friday,		
	8 AM to 8 PM Customer's local time; guaranteed 2-hour response.		
	Next-business-day onsite engineer if Futron and Customer		
	agree this is necessary.		
	Hardware replacement of critical components (major hardware)		
	within 2-business days.		
	24-hour/7-day access to the Futron video test facilities		
	2 hours of remote user-orientation training per year		
	Software updates per manufacturer licensing agreements		
	Remote diagnostic support Maintage of the stable in the plant is a plant the PM received.		
	• Maintenance for each installation begins when the PM receives the completed Acceptance form for the particular installation.		
	are completed Acceptance form for the particular histaliation.		
	The following conditions apply:		
	On-site dispatch and parts replacement determinations must be		
	made by Futron prior to 4:00 PM Eastern Time. Any determination		
	made after 4:00 PM ET will be considered as having occurred on the next business day.		
	Software updates are provided per manufacturer's stated		
	written policy and are subject to manufacturer's licensing		
	agreement. In some instances, customers may be required to obtain a		
	separate software maintenance contract.		

I	TTL Cills in the control of the cont	ı	1
	The following services are not considered part of the maintenance plan. These services can be separately ordered if needed:		
	pian. These services can be separately ordered if needed.		
	Remote installation support		
	Temote instantation support		
	Annual Preventive Maintenance Visit		
	Call history tracking and annual reporting		
	Direct interface support to local or long distance carrier and/or		
	network provider		
	Equipment re-locations, additions, or reconfigurations (See		
_	NOTES below.)		
	 NOTES The Enhanced Maintenance Plan provides a discount for equipment re- 		
	locations, additions, and reconfigurations.		
	2. Requests for equipment re-locations, additions, or reconfigurations must be provided to YTC for review at least 5 business days prior to the requested		
	work date.		
	Promier Maintanance 400/ of total list price of all VTC		
VTG-138-1	Premier Maintenance 40% of total list price of all VTC equipment and peripherals	Lot	40% of Total List Price
V10 100 1	equipment and peripherals	LOI	4070 OF TOTAL LIST FRICE
	Premier Maintenance Plan		
	The Premier Maintenance Plan provides comprehensive		
	maintenance and support for customers who require the highest level		
	of responsiveness and on-site support. It is the ideal choice for		
	customers who are running mission-critical communications		
	networks. The Premier Maintenance Plan includes the following:		
	• 24-hour, 7 days-a-week telephone support; provided by Futron;		
	guaranteed 1-hour response.		
	Next-business-day onsite engineer if Futron and Customer agree this is pagesent.		
	agree this is necessary.Hardware replacement of critical components (major hardware)		
	within 1-business day.		
	24-hour/7-day access to the Futron video test facilities		
	any access to the visit radio test members		
	• 4 hours of remote user-orientation training per year		
	per jen		
	Software updates per manufacturer licensing agreements		
	Remote diagnostic support		
	Maintenance for each installation begins when the PM receives		
	the completed Acceptance form for the particular installation.		
	The following conditions apply:		
	On-site dispatch and parts replacement determinations must be		
	made by Futron prior to 4:00 PM Eastern Time. Any determination		
	made after 4:00 PM ET will be considered as having occurred on the next business day.		
			1

Software updates are provided per manufacturer's stated	
written policy and are subject to manufacturer's licensing agreement. In some instances, customers may be required to obtain a	
separate software maintenance contract.	
The following services are not considered part of the maintenance	
plan. These services can be separately ordered if needed:	
Pamata installation gunnout	
Remote installation support	
Annual Preventive Maintenance Visit	
Call history tracking and annual reporting	
Direct interface support to local or long distance carrier and/or network provider	
Equipment re-locations, additions, or reconfigurations (See	
NOTES below.)	
NOTES A The Provision Maintenance Plan and idea a discount for a suitaneet as	
The Premier Maintenance Plan provides a discount for equipment re- locations, additions, and reconfigurations.	
Requests for equipment re-locations, additions, or reconfigurations must be provided to Futron review at least 3 business days prior to the requested work date.	
Training	
VTG-165-1 System Commissioning for 1 VTC System (Conus) ea \$ 3,490.00	
VTG-167-1 System Commissioning for 1 VTC System OCONUS ea \$ 6,549.00	
VTG-167-1 System Commissioning for 1 VTC System OCONUS ea \$ 6,549.00	
Design Build Consulting Engagement for Video, Audio, and	
VTG-174-1 AV, per conference room ea \$ 26,900.00	

PBX and Voice over IP Systems

SIN 132-8

PBX-004-1	Maintenance	8X5 Phone Support, NBD Parts and Software Replacement (OCONUS)	\$ 13.50
PBX-005-1	Medium PBX System	Medium Voice System (includes Voice Mail- priced per 50 users)	\$ 118,939.89
PBX-006-1	Large PBX System	Large Voice System (includes Voice Mail- priced per 100 users)	\$ 761,911.39
PBX-007-1	Call Accounting System	Call Accounting System per 10 users	\$ 25,277.78
PBX-008-1	Voicemail System	Collaboration/Unified Communications system per 20 users	\$ 144,769.44
PBX-009-1	Call Center System	Virtualizations/Communications System Package	\$ 483,333.33
PBX-010-1	VoIP System	300 - IP Client Licenses, 200 - 16 Button Display IP Phone Sets, 100 - Softphone Licenses, 8 - Analog Device Ports, 8 Port Voicemail, Full Redundancy	\$ 532,052.50
PBX-011-1	Staging	Standard Staging for 1 to 100 user phone system(CONUS)	\$ 6,750.00
PBX-012-1	Staging	Standard Staging per 10 user Communication System Standard Staging per 50 user Communication	\$ 10,125.00
PBX-013-1	Staging	System	\$ 11,475.00
PBX-014-1	Staging	Standard Staging per 100 user Communication System	\$ 15,525.00
PBX-015-1	Maintenance	8X5 Phone Support, NBD Parts and Software Replacement (CONUS)	\$ 7.09
PBX-016-1	Maintenance	24X7 Phone Support, NBD On-Site Parts and Software Replacement (CONUS)	\$ 9.79
PBX-017-1	Maintenance	24X7 Phone Support, NBD On-Site Parts and Software Replacement (OCONUS)	\$ 20.93
PBX-018-1	Maintenance	Voice Recertification for Maintenance Coverage	\$ 1,012.50
PBX-019-1 PBX-020-1	Services Services	Moves Adds and Changes (CONUS), minimum of 4 hours required Dial Plan/Call Routing Design	\$ 182.25 \$ 47.25

FUTRON, Inc.

PBX-021-1	Products	Basic Phone	\$ 538.65	
PBX-022-1	Products	Standard Phone	\$ 673.65	
PBX-023-1	Products	Executive Phone	\$ 877.50	
PBX-024-1	Products	IP Phone	\$ 675.00	
PBX-025-1	Products	User Licensee for TDM/PBX users	\$ 4.05	
PBX-026-1	Products	Phone User Manual	\$ 15.53	
PBX-027-1	Products	End User Training, minimum 100 users	\$ 20.25	
PBX-028-1	Products	Detailed Administrative Training including phone and head end products, 2 day class	\$ 7,762.50	

SATELLITE COMMUNICATIONS SYSTEM SIN 132-8

ITEM DESCRIPTION UNIT PRICE EARTH STATION EQUIPMENT SAT-001-1 3.8 Mt. Prod. Antenna, 2 Port Linear Feed 14007.79 ea SAT-002-1 C-Band Satellite Terminal ea 24698.90 SAT-003-1 Base Band Equipment ea 6822.90 SAT-004-1 Integration Material lot 1895.25 SAT-005-1 Redundant C-Band Terminal 38663.10 ea SAT-006-1 Redundant SDM-300A Satellite Modem 6822.90 ea SAT-007-1 Redundant Switch Modem ea 12736.08 SAT-008-1 7.3 Mt. Antenna ea 118358.36 SAT-009-1 C-Band Satellite Terminal ea 80453.36 SAT-010-1 Base Band Equipment 301293.58 SAT-011-1 2.4 Mt. C-band Marine Stabilized Antenna 108976.88 ea SAT-012-1 TerraSat 200 Remote 10897.69 ea Heliax 29 Piece Kit TB-COMP-KIT ea 812.25 **INSTALLATION** SAT-013-1 Site survey and RFI Field Study 3411.45 ea SAT-014-1 Regulatory Administrative Services 3411.45 ea

Installation Packages CCTV SECURITY and MONITORING SYSTEM

(including labor and material) SIN 132-8

Number	CAMERAS	MONITORS	VCR MUX	Price
CCTC-001-1	(4) 1/3" B&W Cameras, Indoor/outdoor enclosure, temper switches.	Two rack mount 15" B&W monitor	Rack mount Time-lapse VCR , 16 Channel Duplex Multiplexer	
				29924.00
		_		
CCTC-002-1	(4) 1/3" color cameras, 3.5mm lens, indoor/outdoor camera enclosure, temper switches.	Two rack mount 15" B&W monitor	Rack mount Time-lapse VCR , 16 Channel Duplex Multiplexer	
				32742.99
CCTC-003-1	(4) P/T 1/3"- 2.6mm - 12mm WA color cameras & lens, indoor/outdoor camera enclosure, temper switches, outdoor dome and other mounting hardware.	Two rack mount 15" Color monitor	Rack mount Time-lapse VCR, desk top control key pad, 16 Channel Duplex Multiplexer	
				68672.59
CCTC-004-1	(4) P/T 1/3" B&W cameras, 3.5mm lens, (16) 1/3" B&W Cameras indoor/outdoor camera enclosure, temper switches.	Two rack mount 15" B&W monitor, 1000 lines resolution	Rack mount Time-lapse VCR, desk top control key pad, 16 Channel Duplex Multiplexer, Line Controller, Camera and Monitor Controller	122349.63



Metropolitan Area Network

GSA Price List Internet and Data Services SIN 132-12

31N 132-12				
Part Number	Mbps	Non Recurring Cost Per Site	GSA Discounted Monthly Recurring Charge per Mbps	GSA Discounted Monthly Recurring Charge per Location
FUT-MAN-01	1	\$1,667	\$ 388.80	\$ 388.80
FUT-MAN-02	5	\$1,667	\$ 290.40	\$ 1,452.00
FUT-MAN-03	10	\$1,667	\$ 205.20	\$ 2,052.00
FUT-MAN-04	15	\$1,667	\$ 174.00	\$ 2,610.00
FUT-MAN-05	20	\$1,667	\$ 168.00	\$ 3,360.00
FUT-MAN-06	25	\$1,667	\$ 145.20	\$ 3,630.00
FUT-MAN-07	30	\$1,667	\$ 128.40	\$ 3,852.00
FUT-MAN-08	35	\$1,667	\$ 114.00	\$ 3,990.00
FUT-MAN-09	40	\$1,667	\$ 104.40	\$ 4,176.00
FUT-MAN-10	45	\$1,667	\$ 96.00	\$ 4,320.00
FUT-MAN-11	50	\$1,667	\$ 88.80	\$ 4,440.00
FUT-MAN-12	75	\$1,667	\$ 79.20	\$ 5,940.00
FUT-MAN-13	80	\$1,667	\$ 79.20	\$ 6,336.00
FUT-MAN-14	90	\$1,667	\$ 76.80	\$ 6,912.00
FUT-MAN-15	95	\$1,667	\$ 75.60	\$ 7,182.00
FUT-MAN-16	100	\$1,667	\$ 74.40	\$ 7,440.00
FUT-MAN-17	105	\$1,667	\$ 73.20	\$ 7,686.00
FUT-MAN-18	110	\$1,667	\$ 73.20	\$ 8,052.00
FUT-MAN-19	115	\$1,667	\$ 72.00	\$ 8,280.00
FUT-MAN-20	120	\$1,667	\$ 70.80	\$ 8,496.00
FUT-MAN-21	125	\$1,667	\$ 70.80	\$ 8,850.00
FUT-MAN-22	130	\$1,667	\$ 69.60	\$ 9,048.00
FUT-MAN-23	135	\$1,667	\$ 69.60	\$ 9,396.00
FUT-MAN-24	140	\$1,667	\$ 69.60	\$ 9,744.00
FUT-MAN-25	150	\$1,667	\$ 68.40	\$10,260.00
FUT-MAN-26	155	\$1,667	\$ 67.20	\$10,416.00
FUT-MAN-27	160	\$1,667	\$ 67.20	\$10,752.00
FUT-MAN-28	165	\$1,667	\$ 66.00	\$10,890.00
FUT-MAN-29	175	\$1,667	\$ 66.00	\$11,550.00
FUT-MAN-30	180	\$1,667	\$ 64.80	\$11,664.00



FUT-MAN-31	185	\$1,667	\$ 64.80	\$11,988.00
FUT-MAN-32	190	\$1,667	\$ 63.60	\$12,084.00
FUT-MAN-33	200	\$1,667	\$ 63.60	\$12,720.00
FUT-MAN-34	225	\$1,667	\$ 62.40	\$14,040.00
FUT-MAN-35	250	\$1,667	\$ 62.40	\$15,600.00
FUT-MAN-36	275	\$2,000	\$ 62.40	\$17,160.00
FUT-MAN-37	300	\$2,000	\$ 62.40	\$18,720.00
FUT-MAN-38	325	\$2,000	\$ 61.20	\$19,890.00
FUT-MAN-39	350	\$2,000	\$ 61.20	\$21,420.00
FUT-MAN-40	375	\$2,000	\$ 61.20	\$22,950.00
FUT-MAN-41	400	\$2,000	\$ 61.20	\$24,480.00
FUT-MAN-42	425	\$2,000	\$ 60.00	\$25,500.00
FUT-MAN-43	450	\$2,000	\$ 60.00	\$27,000.00
FUT-MAN-44	475	\$2,000	\$ 60.00	\$28,500.00
FUT-MAN-45	500	\$2,000	\$ 60.00	\$30,000.00
FUT-MAN-46	525	\$2,667	\$ 60.00	\$31,500.00
FUT-MAN-47	550	\$2,667	\$ 60.00	\$33,000.00
FUT-MAN-48	575	\$2,667	\$ 60.00	\$34,500.00
FUT-MAN-49	600	\$2,667	\$ 60.00	\$36,000.00
FUT-MAN-50	625	\$2,667	\$ 58.80	\$36,750.00
FUT-MAN-51	650	\$2,667	\$ 58.80	\$38,220.00
FUT-MAN-52	675	\$2,667	\$ 58.80	\$39,690.00
FUT-MAN-53	700	\$2,667	\$ 58.80	\$41,160.00
FUT-MAN-54	725	\$2,667	\$ 58.80	\$42,630.00
FUT-MAN-55	750	\$2,667	\$ 58.80	\$44,100.00
FUT-MAN-56	775	\$2,667	\$ 58.80	\$45,570.00
FUT-MAN-57	800	\$2,667	\$ 58.80	\$47,040.00
FUT-MAN-58	825	\$2,667	\$ 57.60	\$47,520.00
FUT-MAN-59	850	\$2,667	\$ 57.60	\$48,960.00
FUT-MAN-60	875	\$2,667	\$ 57.60	\$50,400.00
FUT-MAN-61	900	\$2,667	\$ 57.60	\$51,840.00
FUT-MAN-62	925	\$2,667	\$ 57.60	\$53,280.00
FUT-MAN-63	950	\$2,667	\$ 57.60	\$54,720.00
FUT-MAN-64	1000	\$2,667	\$ 57.60	\$57,600.00

Futron NET Service

Pricing applicable to any Futron "on-net" U.S. location.

"On-net" is defined as any customer location to which Futron has fiber connectivity.

FUT-NET-01	1	\$1,667	\$ 598.80	\$ 598.80
FUT-NET-02	5	\$1,667	\$ 525.60	\$ 2,628.00
FUT-NET-03	10	\$1,667	\$ 458.40	\$ 4,584.00
FUT-NET-04	15	\$1,667	\$ 381.01	\$ 5,715.11
FUT-NET-05	20	\$1,667	\$ 327.39	\$ 6,547.87
FUT-NET-06	25	\$1,667	\$ 295.23	\$ 7,380.64
FUT-NET-07	30	\$1,667	\$ 273.78	\$ 8,213.41
FUT-NET-08	35	\$1,667	\$ 258.46	\$ 9,046.17
FUT-NET-09	40	\$1,667	\$ 246.97	\$ 9,878.94
FUT-NET-10	45	\$1,667	\$ 235.20	\$10,584.00
FUT-NET-11	50	\$1,667	\$ 223.20	\$11,160.00
FUT-NET-12	75	\$1,667	\$ 201.60	\$15,120.00
FUT-NET-13	80	\$1,667	\$ 199.20	\$15,936.00
FUT-NET-14	90	\$1,667	\$ 195.60	\$17,604.00
FUT-NET-15	95	\$1,667	\$ 193.20	\$18,354.00
FUT-NET-16	100	\$1,667	\$ 181.33	\$18,133.33
FUT-NET-17	105	\$1,667	\$ 180.20	\$18,921.00
FUT-NET-18	110	\$1,667	\$ 179.07	\$19,697.33
FUT-NET-19	115	\$1,667	\$ 177.93	\$20,462.33
FUT-NET-20	120	\$1,667	\$ 176.80	\$21,216.00
FUT-NET-21	125	\$1,667	\$ 175.67	\$21,958.33
FUT-NET-22	130	\$1,667	\$ 174.53	\$22,689.33
FUT-NET-23	135	\$1,667	\$ 173.40	\$23,409.00
FUT-NET-24	140	\$1,667	\$ 172.27	\$24,117.33
FUT-NET-25	150	\$1,667	\$ 171.13	\$25,670.00
FUT-NET-26	155	\$1,667	\$ 170.00	\$26,350.00
FUT-NET-27	160	\$1,667	\$ 168.87	\$27,018.67
FUT-NET-28	165	\$1,667	\$ 167.73	\$27,676.00
FUT-NET-29	175	\$1,667	\$ 166.60	\$29,155.00
FUT-NET-30	180	\$1,667	\$ 165.47	\$29,784.00
FUT-NET-31	185	\$1,667	\$ 164.33	\$30,401.67
FUT-NET-32	190	\$1,667	\$ 163.20	\$31,008.00
FUT-NET-33	200	\$1,667	\$ 162.07	\$32,413.33
FUT-NET-34	225	\$1,667	\$ 160.93	\$36,210.00
FUT-NET-35	250	\$1,667	\$ 159.80	\$39,950.00
FUT-NET-36	275	\$2,000	\$ 150.51	\$41,389.33
FUT-NET-37	300	\$2,000	\$ 144.97	\$43,492.00
FUT-NET-38	325	\$2,000	\$ 139.44	\$45,318.00

FUT-NET-39	350	\$2,000	\$ 133.91	\$46,867.33
FUT-NET-40	375	\$2,000	\$ 123.73	\$46,400.00
FUT-NET-41	400	\$2,000	\$ 118.40	\$47,360.00
FUT-NET-42	425	\$2,000	\$ 113.07	\$48,053.33
FUT-NET-43	450	\$2,000	\$ 107.73	\$48,480.00
FUT-NET-44	475	\$2,000	\$ 96.00	\$45,600.00
FUT-NET-45	500	\$2,000	\$ 91.00	\$45,500.00
FUT-NET-46	525	\$2,667	\$ 87.00	\$45,675.00
FUT-NET-47	550	\$2,667	\$ 85.00	\$46,750.00
FUT-NET-48	575	\$2,667	\$ 82.00	\$47,150.00
FUT-NET-49	600	\$2,667	\$ 80.00	\$48,000.00
FUT-NET-50	625	\$2,667	\$ 77.00	\$48,125.00
FUT-NET-51	650	\$2,667	\$ 75.00	\$48,750.00
FUT-NET-52	675	\$2,667	\$ 57.60	\$38,880.00
FUT-NET-53	700	\$2,667	\$ 56.00	\$39,200.00
FUT-NET-54	725	\$2,667	\$ 53.60	\$38,860.00
FUT-NET-55	750	\$2,667	\$ 52.00	\$39,000.00
FUT-NET-56	775	\$2,667	\$ 50.40	\$39,060.00
FUT-NET-57	800	\$2,667	\$ 48.80	\$39,040.00
FUT-NET-58	825	\$2,667	\$ 47.20	\$38,940.00
FUT-NET-59	850	\$2,667	\$ 33.00	\$28,050.00
FUT-NET-60	875	\$2,667	\$ 32.40	\$28,350.00
FUT-NET-61	900	\$2,667	\$ 31.80	\$28,620.00
FUT-NET-62	925	\$2,667	\$ 31.20	\$28,860.00
FUT-NET-63	950	\$2,667	\$ 30.60	\$29,070.00
FUT-NET-64	1000	\$2,667	\$ 30.00	\$30,000.00

Futron NOW Feature

Service

Futron NOW feature allows customers to scale bandwidth on an as-needed basis in increments as little as 1Mbps.

NOW is available for any of Futron products including: MAN, NAN, GAN, NET and ColoNET

Pricing

No non-recurring cost is applied to the NOW feature. NOW is priced at a per Mbps rate of

135% of the monthly recurring charge

(MRC) of the service to which it is applied.

service to which it is applied.

A \$125 minimum charge applies to each change.

GSA National and Global Area Network Services (NAN and GAN) – All Pricing Based On Chart p.58

GSA Monthly Recurring Charge (MRC) per Mbps (Per Metro Tier)								
maps (i or metro rier)		Tier						
	Mbps	1 IXC	Tier2 IXC	Tier3 IXC	Tier4 IXC		Associated Metro 1	Associated Metro 2
Futron Part Number	1	\$890	\$1,479	\$1,969	\$2,236		\$216	\$216
F100	2	\$578	\$908	\$1,182	\$1,331		\$201	\$201
F101	3	\$465	\$708	\$910	\$1,021		\$187	\$187
F102	4	\$403	\$603	\$769	\$859		\$173	\$173
F103	5	\$361	\$535	\$679	\$758		\$161	\$161
F104	6	\$330	\$486	\$617	\$688		\$150	\$150
F105	7	\$305	\$449	\$569	\$635		\$140	\$140
F106	8	\$285	\$420	\$532	\$593		\$130	\$130
F107	9	\$267	\$395	\$501	\$559		\$121	\$121
F108	10	\$254	\$376	\$477	\$533		\$114	\$114
F109	11	\$244	\$362	\$460	\$513		\$110	\$110
F110	12	\$236	\$350	\$444	\$496	1	\$106	\$106
F111	13	\$229	\$339	\$431	\$481		\$103	\$103
F112	14	\$223	\$330	\$419	\$468		\$100	\$100
F113	15	\$217	\$322	\$409	\$456		\$97	\$97
F114	16	\$211	\$314	\$399	\$446		\$94	\$94
F115	17	\$206	\$307	\$391	\$437		\$91	\$91
F116	18	\$202	\$301	\$383	\$428		\$88	\$88
F117	19	\$197	\$295	\$376	\$420		\$86	\$86
F118	20	\$193	\$290	\$370	\$413		\$83	\$83
F119	21	\$190	\$285	\$364	\$407		\$81	\$81
F120	22	\$186	\$280	\$358	\$401		\$79	\$79
F121	23	\$183	\$276	\$353	\$395		\$77	\$77
F122	24	\$180	\$272	\$348	\$390		\$75	\$75
F123	25	\$177	\$268	\$344	\$385		\$73	\$73
F124	26	\$174	\$265	\$340	\$381		\$71	\$71
F125	27	\$172	\$261	\$336	\$376		\$69	\$69
F126	28	\$170	\$258	\$332	\$372		\$68	\$68
F127	29	\$167	\$256	\$329	\$369		\$66	\$66
F128	30	\$165	\$253	\$326	\$365		\$65	\$65
F129	31	\$163	\$250	\$323	\$362		\$64	\$64
F130	32	\$161	\$248	\$320	\$359		\$62	\$62
F131	33	\$160	\$246	\$317	\$356		\$61	\$61
F132	34	\$158	\$243	\$314	\$353		\$60	\$60
F133	35	\$156	\$241	\$312	\$351		\$59	\$59
F134	36	\$155	\$239	\$310	\$348		\$58	\$58
F135	37	\$153	\$238	\$308	\$346		\$57	\$57

F136	38	\$152	\$236	\$306	\$344		\$56	\$56
F137	39	\$151	\$234	\$304	\$342	-	·	,
F138	40	\$149	\$233	\$304	\$342	-	\$55 \$54	\$55 \$54
F139	41	\$148	\$233	\$300	\$338		\$54 \$53	\$53
F140	42	\$147	\$230	\$298	\$336			·
F141	43	· ·				-	\$52 \$52	\$52
F142		\$146	\$228	\$297	\$334		\$52	\$52
F143	44	\$145	\$227	\$295	\$332	-	\$51	\$51
F144	45	\$144	\$226	\$294	\$331	-	\$50	\$50
	46	\$142	\$223	\$290	\$327	_	\$50	\$50
F145	47	\$141	\$220	\$287	\$323	_	\$49	\$49
F146	48	\$139	\$218	\$284	\$320		\$48	\$48
F147	49	\$137	\$216	\$281	\$316	-	\$48	\$48
F148	50	\$136	\$213	\$278	\$313	_	\$47	\$47
F149	51	\$134	\$209	\$272	\$307		\$47	\$47
F150	52	\$134	\$207	\$269	\$303		\$47	\$47
F151	53	\$134	\$205	\$267	\$300		\$47	\$47
F152	54	\$134	\$203	\$264	\$297		\$47	\$47
F153	55	\$134	\$201	\$261	\$294		\$47	\$47
F154	56	\$134	\$196	\$256	\$288		\$47	\$47
F155	57	\$132	\$194	\$253	\$285		\$46	\$46
F156	58	\$132	\$192	\$250	\$282		\$46	\$46
F157	59	\$132	\$190	\$247	\$278		\$46	\$46
F158	60	\$132	\$188	\$244	\$275		\$46	\$46
F159	61	\$132	\$187	\$243	\$274		\$46	\$46
F160	62	\$132	\$187	\$243	\$274		\$46	\$46
F161	63	\$130	\$184	\$239	\$270		\$45	\$45
F162	64	\$130	\$184	\$239	\$270		\$45	\$45
F163	65	\$130	\$184	\$239	\$270		\$45	\$45
F164	66	\$130	\$184	\$239	\$270		\$45	\$45
F165	67	\$130	\$184	\$239	\$270		\$45	\$45
F166	68	\$130	\$184	\$239	\$270		\$45	\$45
F167	69	\$128	\$181	\$236	\$266		\$45	\$45
F168	70	\$128	\$181	\$236	\$266		\$45	\$45
F169	71	\$128	\$181	\$236	\$266		\$45	\$45
F170	72	\$128	\$181	\$236	\$266		\$45	\$45
F171	73	\$128	\$181	\$236	\$266		\$45	\$45
F172	74	\$128	\$181	\$236	\$266		\$45	\$45
F173	75	\$126	\$179	\$232	\$262		\$44	\$44
F174	76	\$126	\$179	\$232	\$262		\$44	\$44
F175	77	\$126	\$179	\$232	\$262		\$44	\$44
F176	78	\$126	\$179	\$232	\$262		\$44	\$44
F177	79	\$126	\$179	\$232	\$262		\$44	\$44
F178	80	\$126	\$179	\$232	\$262		\$44	\$44
F179	81	\$125	\$176	\$229	\$258		\$43	\$43
F180	82	\$125	\$176	\$229	\$258		\$43	\$43
F181	83	\$125	\$176	\$229	\$258		\$43	\$43

F182	84	\$125	\$176	\$229	\$258		\$43	\$43
F183	85	\$125	\$176	\$229	\$258		\$43	\$43
F184	86	\$125	\$176	\$229	\$258		\$43	\$43
F185	87	\$123	\$173	\$225	\$254		\$43	\$43
F186	88	\$123	\$173	\$225	\$254		\$43	\$43
F187	89	\$123	\$173	\$225	\$254		\$43	\$43
F188	90	\$123	\$173	\$225	\$254		\$43	\$43
F189	91	\$123	\$173	\$225	\$254		\$43	\$43
F190	92	\$123	\$173	\$225	\$254		\$43	\$43
F191	93	\$121	\$170	\$222	\$250		\$42	\$42
F192	94	\$121	\$170	\$222	\$250		\$42	\$42
F193	95	\$121	\$170	\$222	\$250		\$42	\$42
F194	96	\$121	\$170	\$222	\$250		\$42	\$42
F195	97	\$121	\$170	\$222	\$250		\$42	\$42
F196	98	\$121	\$170	\$222	\$250		\$42	\$42
F197	99	\$119	\$168	\$218	\$246		\$41	\$41
F198	100	\$119	\$168	\$218	\$246		\$41	\$41
F199	101	\$119	\$168	\$218	\$246		\$41	\$41
F200	102	\$119	\$168	\$218	\$246		\$41	\$41
F201	103	\$119	\$168	\$218	\$246		\$41	\$41
F202	104	\$119	\$168	\$218	\$246		\$41	\$41
F203	105	\$117	\$165	\$215	\$242		\$41	\$41
F204	106	\$117	\$165	\$215	\$242		\$41	\$41
F205	107	\$117	\$165	\$215	\$242		\$41	\$41
F206	108	\$117	\$165	\$215	\$242		\$41	\$41
F207	109	\$117	\$165	\$215	\$242		\$41	\$41
F208	110	\$117	\$165	\$215	\$242		\$41	\$41
F209	111	\$115	\$162	\$211	\$238		\$40	\$40
F210	112	\$115	\$162	\$211	\$238		\$40	\$40
F211	113	\$115	\$162	\$211	\$238		\$40	\$40
F212	114	\$115	\$162	\$211	\$238		\$40	\$40
F213	115	\$115	\$162	\$211	\$238		\$40	\$40
F214	116	\$115	\$162	\$211	\$238		\$40	\$40
F215	117	\$113	\$160	\$208	\$234		\$39	\$39
F216	118	\$113	\$160	\$208	\$234		\$39	\$39
F217	119	\$113	\$160	\$208	\$234		\$39	\$39
F218	120	\$113	\$160	\$208	\$234		\$39	\$39
F219	121	\$113	\$160	\$208	\$234		\$39	\$39
F220	122	\$113	\$160	\$208	\$234		\$39	\$39
F221	123	\$113	\$160	\$208	\$234		\$39	\$39
F222	124	\$113	\$160	\$208	\$234		\$39	\$39
F223	125	\$113	\$160	\$208	\$234		\$39	\$39
F224	126	\$113	\$160	\$208	\$234		\$39	\$39
F225	127	\$113	\$160	\$208	\$234		\$39	\$39
F226	128	\$113	\$160	\$208	\$234		\$39	\$39
F227	129	\$111	\$157	\$204	\$230	L	\$39	\$39

F228	130	\$111	\$157	\$204	\$230	\$39	\$39
F229	131	\$111	\$157	\$204	\$230	\$39	\$39
F230	132	\$111	\$157	\$204	\$230	\$39	\$39
F231	133	\$111	\$157	\$204	\$230	\$39	\$39
F232	134	\$111	\$157	\$204	\$230	\$39	\$39
F233	135	\$111	\$157	\$204	\$230	\$39	\$39
F234	136	\$111	\$157	\$204	\$230	\$39	\$39
F235	137	\$111	\$157	\$204	\$230	\$39	\$39
F236	138	\$111	\$157	\$204	\$230	\$39	\$39
F237	139	\$111	\$157	\$204	\$230	\$39	\$39
F238	140	\$111	\$157	\$204	\$230	\$39	\$39
F239	141	\$109	\$154	\$201	\$226	\$38	\$38
F240	142	\$109	\$154	\$201	\$226	\$38	\$38
F241	143	\$109	\$154	\$201	\$226	\$38	\$38
F242	144	\$109	\$154	\$201	\$226	\$38	\$38
F243	145	\$109	\$154	\$201	\$226	\$38	\$38
F244	146	\$109	\$154	\$201	\$226	\$38	\$38
F245	147	\$109	\$154	\$201	\$226	\$38	\$38
F246	148	\$109	\$154	\$201	\$226	\$38	\$38
F247	149	\$109	\$154	\$201	\$226	\$38	\$38
F248	150	\$109	\$154	\$201	\$226	\$38	\$38
F249	151	\$109	\$154	\$201	\$226	\$38	\$38
F250	152	\$109	\$154	\$201	\$226	\$38	\$38
F251	153	\$107	\$152	\$197	\$222	\$37	\$37
F252	154	\$107	\$152	\$197	\$222	\$37	\$37
F253	155	\$107	\$152	\$197	\$222	\$37	\$37
F254	156	\$107	\$152	\$197	\$222	\$37	\$37
F255	157	\$107	\$152	\$197	\$222	\$37	\$37
F256	158	\$107	\$152	\$197	\$222	\$37	\$37
F257	159	\$107	\$152	\$197	\$222	\$37	\$37
F258	160	\$107	\$152	\$197	\$222	\$37	\$37
F259	161	\$107	\$152	\$197	\$222	\$37	\$37
F260	162	\$107	\$152	\$197	\$222	\$37	\$37
F261	163	\$107	\$152	\$197	\$222	\$37	\$37
F262	164	\$107	\$152	\$197	\$222	\$37	\$37
F263	165	\$105	\$149	\$194	\$218	\$37	\$37
F264	166	\$105	\$149	\$194	\$218	\$37	\$37
F265	167	\$105	\$149	\$194	\$218	\$37	\$37
F266	168	\$105	\$149	\$194	\$218	\$37	\$37
F267	169	\$105	\$149	\$194	\$218	\$37	\$37
F268	170	\$105	\$149	\$194	\$218	\$37	\$37
F269	171	\$105	\$149	\$194	\$218	\$37	\$37
F270	172	\$105	\$149	\$194	\$218	\$37	\$37
F271	173	\$105	\$149	\$194	\$218	\$37	\$37
F272	174	\$105	\$149	\$194	\$218	\$37	\$37
F273	175	\$105	\$149	\$194	\$218	\$37	\$37

F274	176	¢105	\$149	\$194	\$218		\$37	\$37
F275	177	\$105 \$103	\$149	\$194	\$214	-	* -	* -
F276	178	·	·			-	\$36	\$36
F277		\$103	\$146	\$190 \$100	\$214	-	\$36	\$36
F277	179 180	\$103	\$146	\$190	\$214	-	\$36	\$36
		\$103	\$146	\$190	\$214	-	\$36	\$36
F279	181	\$103	\$146	\$190	\$214	-	\$36	\$36
F280	182	\$103	\$146	\$190	\$214	-	\$36	\$36
F281	183	\$103	\$146	\$190	\$214	-	\$36	\$36
F282	184	\$103	\$146	\$190	\$214	-	\$36	\$36
F283	185	\$103	\$146	\$190	\$214	-	\$36	\$36
F284	186	\$103	\$146	\$190	\$214		\$36	\$36
F285	187	\$103	\$146	\$190	\$214	-	\$36	\$36
F286	188	\$103	\$146	\$190	\$214	-	\$36	\$36
F287	189	\$102	\$143	\$187	\$210	-	\$35	\$35
2F88	190	\$102	\$143	\$187	\$210		\$35	\$35
F289	191	\$102	\$143	\$187	\$210	_	\$35	\$35
F290	192	\$102	\$143	\$187	\$210	L	\$35	\$35
F291	193	\$102	\$143	\$187	\$210	L	\$35	\$35
F292	194	\$102	\$143	\$187	\$210	L	\$35	\$35
F293	195	\$102	\$143	\$187	\$210	L	\$35	\$35
F294	196	\$102	\$143	\$187	\$210		\$35	\$35
F295	197	\$102	\$143	\$187	\$210		\$35	\$35
F296	198	\$102	\$143	\$187	\$210		\$35	\$35
F297	199	\$102	\$143	\$187	\$210		\$35	\$35
F298	200	\$102	\$143	\$187	\$210		\$35	\$35
F299	201	\$100	\$141	\$183	\$206		\$35	\$35
F300	202	\$100	\$141	\$183	\$206		\$35	\$35
F301	203	\$100	\$141	\$183	\$206		\$35	\$35
F302	204	\$100	\$141	\$183	\$206		\$35	\$35
F303	205	\$100	\$141	\$183	\$206		\$35	\$35
F304	206	\$100	\$141	\$183	\$206		\$35	\$35
F305	207	\$100	\$141	\$183	\$206		\$35	\$35
F306	208	\$100	\$141	\$183	\$206		\$35	\$35
F307	209	\$100	\$141	\$183	\$206		\$35	\$35
F308	210	\$100	\$141	\$183	\$206		\$35	\$35
F309	211	\$100	\$141	\$183	\$206		\$35	\$35
F310	212	\$100	\$141	\$183	\$206		\$35	\$35
F311	213	\$100	\$141	\$183	\$206		\$35	\$35
F312	214	\$100	\$141	\$183	\$206		\$35	\$35
F313	215	\$100	\$141	\$183	\$206		\$35	\$35
F314	216	\$100	\$141	\$183	\$206		\$35	\$35
F315	217	\$100	\$141	\$183	\$206		\$35	\$35
F316	218	\$100	\$141	\$183	\$206		\$35	\$35
F317	219	\$100	\$141	\$183	\$206		\$35	\$35
F318	220	\$100	\$141	\$183	\$206		\$35	\$35
F319	221	\$100	\$141	\$183	\$206		\$35	\$35

F320	222	\$100	\$141	\$183	\$206	\$35	\$35
F321	223	\$100	\$141	\$183	\$206	\$35	\$35
F322	224	\$100	\$141	\$183	\$206	\$35	\$35
F323	225	\$100	\$141	\$183	\$206	\$35	\$35
F324	226	\$100	\$141	\$183	\$206	\$35	\$35
F325	227	\$100	\$141	\$183	\$206	\$35	\$35
F326	228	\$100	\$141	\$183	\$206	\$35	\$35
F327	229	\$100	\$141	\$183	\$206	\$35	\$35
F328	230	\$100	\$141	\$183	\$206	\$35	\$35
F329	231	\$100	\$141	\$183	\$206	\$35	\$35
F330	232	\$100	\$141	\$183	\$206	\$35	\$35
F331	233	\$100	\$141	\$183	\$206	\$35	\$35
F332	234	\$100	\$141	\$183	\$206	\$35	\$35
F333	235	\$100	\$141	\$183	\$206	\$35	\$35
F334	236	\$100	\$141	\$183	\$206	\$35	\$35
F335	237	\$100	\$141	\$183	\$206	\$35	\$35
F336	238	\$100	\$141	\$183	\$206	\$35	\$35
F337	239	\$100	\$141	\$183	\$206	\$35	\$35
F338	240	\$100	\$141	\$183	\$206	\$35	\$35
F339	241	\$100	\$141	\$183	\$206	\$35	\$35
F340	242	\$100	\$141	\$183	\$206	\$35	\$35
F341	243	\$100	\$141	\$183	\$206	\$35	\$35
F342	244	\$100	\$141	\$183	\$206	\$35	\$35
F343	245	\$100	\$141	\$183	\$206	\$35	\$35
F344	246	\$100	\$141	\$183	\$206	\$35	\$35
F345	247	\$100	\$141	\$183	\$206	\$35	\$35
F346	248	\$100	\$141	\$183	\$206	\$35	\$35
F347	249	\$100	\$141	\$183	\$206	\$35	\$35
F348	250	\$100	\$141	\$183	\$206	\$35	\$35
F349	Over 250	ICB	ICB	ICB	ICB	ICB	ICB
F350							

"ICB" individual
case
basis
Pricing for circuits over
250Mbps available on "ICB" or
"individual case basis."

*TO GET PRICING BASED ON TIERS FOLLOW CHART ON PAGE 58

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	Commercial City Pair Tiers												
Cites	Bay Area	Chicago	Dallas	Denver	Houston	New York	Philly	San Diego	Seattle	D.C.	New Jersey	Los Angeles	London
Bay Area	-	4	3	3	3	4	4	2	3	4	4	1	4
Chicago	4	-	2	3	3	2	2	3	3	2	2	3	4
Dallas	3	2	-	2	1	3	3	3	3	3	3	3	4
Denver	3	3	2	-	2	3	3	2	3	3	3	2	4
Houston	3	3	1	2	-	3	3	3	4	3	3	3	4
New York	4	2	3	3	3	1	1	4	4	1	1	4	3
Philadelphia	4	2	3	3	3	1	1	4	4	1	1	4	3
San Diego	2	3	3	2	3	4	4	-	3	4	4	1	4
Seattle	3	3	3	3	4	4	4	3	-	4	4	3	4
Washington, DC	4	2	3	3	3	1	1	4	4	-	1	4	3
New Jersey	4	2	3	3	3	1	1	4	4	1	_	4	3
Los Angeles	1	3	3	2	3	4	4	1	3	4	4	-	4
London	4	4	4	4	4	3	3	4	4	3	3	4	-

Labor Categories

Requirements & Descriptions

Labor Category Title	Education Description	Experience Description
Agile Coach	Bachelor's degree in Information Technology	3-5 yrs
Applications Programmer	Bachelor's degree in Computer Science	1-2 yrs
Applications Systems Analyst/ Programmer – Senior	Bachelor's degree in Computer Science	6-15 yrs
Backend Web Developer	Bachelor's degree in Information Technology	3-5 yrs
Business Analyst	Bachelor's degree in Information Technology	3-5 yrs
Chief Information Security Officer	BS in Information Technology	6-9 yrs
Client/Server Database Manager	Bachelor's degree in Engineering	3-5 yrs
Client/Server Network Architect	Bachelor's degree in Engineering	4-6 yrs
Communications Analyst - Senior	High School Diploma and Computer Training	6-9 yrs
Communications Facility Engineer	Bachelor's degree in Engineering	6-9 yrs
Communications Transmission Engineer	Bachelor of science degree in electrical engineering,	3-5 yrs
Computer Operations Manager	Bachelor's Degree in Business Administration	2-5 yrs
Consultant	Bachelor's Degree in Computer Science	3-9 yrs
Data Architect	Bachelor's Degree in Engineering	3-5 yrs
Data Communications Manager - Planning & Implementation	Bachelor's Degree in Communications	
Data Security Administration Manager	Bachelors of Science degree in Computer Science	7-9 yrs 8-12 yrs
Data Security Analyst - Senior	Bachelor's Degree Information Technology	6-9 yrs
Data Warehousing Analyst	Bachelor's Degree Computer Science	3-5 yrs
Data Warehousing Project Manager	Bachelor's Degree in Project Management	6-9 yrs
Data/Configuration Management Specialist	Bachelor's Degree in computer science	6-9 yrs
Database Analyst/ Programmer - Intermediate	Bachelor's Degree in computer science.	2-5 yrs
Database Analyst/ Programmer – Senior	Bachelor's Degree in computer engineering	6-9 yrs
Database Manager	Bachelor's Degree in computer science.	0-9 yrs
DevOps Engineer	Bachelor's Degree in Information Technology	3-5 yrs
Delivery Manager	Bachelor's Degree in Information	3-5 yrs
Digital Performance Engineer	Technology Bachelor's Degree in Information	3-5 yrs

Bachelor's Degree in Information Technology	6-9 yrs
Bachelor's Degree in communications	3-5 yrs
Bachelor's Degree in Computer Programming	5-9 yrs
Bachelor's Degree in computer engineering	6-9 yrs
	0-3 yrs
Bachelor's in computer science,	3-5 yrs
Master's Degree in computer science.	6-9 yrs
· ·	3-5 yrs
Bachelor's Degree in computer science	3-5 yrs
Bachelor's degree in communications	3-5 yrs
Bachelor's degree in Information Technology	3-5 yrs
High School Diploma	3-5 yrs
Associate's degree in Computer Science	6-9 yrs
Bachelor's degree in Electrical	6-9 yrs
Bachelor's degree in computer	3-5 yrs
Bachelor's degree in computer	3-5 yrs
Bachelor's degree in computer science	6-9 yrs
Bachelor's degree in Information Technology	3-9 yrs
Bachelor's degree in information	6-9 yrs
Bachelor's Degree in Computer	6-9 yrs
Bachelor's degree in Information	6-9 yrs
Bachelor's Degree in Information	3-5 yrs
Bachelor's degree in Information	6-9 yrs
PhD in Engineering	3-5 yrs
Bachelor's degree in Information Technology	3-5 yrs
Bachelor's degree in Information	6-9 yrs
Bachelor's Degree in Computer	6-9 yrs
Bachelor's degree in Computer	3-5 yrs
Bachelor's Degree In General	
Engineering	3-5 yrs
	Bachelor's Degree in communications Bachelor's Degree in Computer Programming Bachelor's Degree in computer engineering Bachelor's Degree in computer engineering Bachelor's in computer science, Master's Degree in computer science. Bachelor's degree in computer science Bachelor's Degree in computer science Bachelor's degree in computer science Bachelor's degree in Information Technology High School Diploma Associate's degree in Electrical Engineering Bachelor's degree in computer engineering, Bachelor's degree in computer engineering. Bachelor's degree in computer science Bachelor's degree in floormation Technology Bachelor's degree in Information Systems PhD in Engineering Bachelor's degree in Information Technology Bachelor's degree in Information Technology Bachelor's degree in Information Technology Bachelor's Degree in Information Technology Bachelor's Degree in Information Technology Bachelor's Degree in Information Technology Bachelor's degree in Information Technology Bachelor's degree in Information Technology Bachelor's degree in Information Technology Bachelor's degree in Information Technology Bachelor's degree in Information Technology Bachelor's degree in Information Technology Bachelor's degree in Information Technology Bachelor's degree in Information

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Bachelor's degree in computer	
	3-5 yrs
·	6-9 yrs
•	40.40
	10-12 yrs
	3-5 yrs
Bachelor's Degree in Information	3 5 7.5
Technology.	6-9 yrs
Bachelor's Degree Information Technology	3-9 yrs
Bachelor's degree in Information Technology	3-5 yrs
Bachelor's degree in computer	
	3-5 yrs
	6 0 vrc
	6-9 yrs
	10-12 yrs
Bachelor's degree in computer	,
science	6-9 yrs
	1.5
	1-5 yrs
Bachelor's in computer science	8-10 yrs
Associate Degree in data processing	6-9 yrs
Bachelor's degree in a computer science	5-9 yrs
Bachelor's Degree in Information Technology	3-5 yrs
Bachelor's degree in computer	3-5 yrs
Bachelor's in computer science	
Pacholaris dograe in computer	6-9 yrs
science	7-9 yrs
Bachelor's degree in computer	
	7-15 yrs
	6-9 yrs
	0-3 yis
Technology	3-5 yrs
Bachelor's Degree in Information	3-5 yrs
engineering	5-7 yrs
Bachelor's degree in engineering	5-7 yrs
Master's degree in Computer Science	5-7 yrs
Bachelor's degree in computer	
	3-5 yrs
science	6-9 yrs
Bachelor's degree in Information Technology	3-5 yrs
Bachelor's Degree In computer	
engineering	3-5 yrs
	science Bachelor's in computer science Bachelor's degree in computer science Bachelor's degree in Information Technology Bachelor's Degree in Information Technology. Bachelor's Degree Information Technology Bachelor's degree in Information Technology Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's Degree In Information Technology Bachelor's Degree in computer science Bachelor's Degree in computer science Bachelor's Degree in computer science Bachelor's Degree in data processing Bachelor's in computer science Associate Degree in data processing Bachelor's degree in a computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's Degree in computer science Bachelor's Degree in computer science Bachelor's Degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science Bachelor's degree in computer science

FUTRON, Inc.

FUTRON, Inc.		
Systems Administrator - Senior	Bachelor's Degree Information	
	Technology	6-9 yrs
Systems Analysis and Programming Director	Bachelor's degree in computer	
	science	6-9 yrs
Systems Engineer	Bachelor's degree in computer	10.45
O store Manager (Test estados)	science.	10-15 yrs
Systems Management Technologist	Associate's degree in Information	2 E 150
Technical Architect	Technology Bachelor's Degree in Information	2-5 yrs 3-5 Yrs
Technical Architect	Technology	3-5 118
Technical Writer	Bachelor's Degree in Technical	
Teormodi Willer	Communications;	2-5 yrs
Telecommunications Engineer/ Analyst –	Associates degree in Computer	2 0 y.0
Intermediate	Science.	3-5 yrs
Telecommunications Engineer/ Analyst –	Bachelor's degree in communications	
Senior		6-9 yrs
Telecommunications Manager - Multiple	Bachelor's degree in computer	
Incumbents	science	5-9 yrs
Telecommunications Manager - Single	Bachelor's degree in Computer	
Incumbent	Science	5-9 yrs
Telecommunications Network Help Desk	Associates Degree in Computer	
	Science	3-5 yrs
Telecommunications Programmer/ Systems	Bachelor's degree in computer	
Analyst – Senior	science	
		6-9 yrs
Telecommunications/Communications	Bachelor's degree in computer	
Integration Engineer	science	
		3-5 yrs
Test Engineer	Bachelor's in computer science.	2.5.150
UNIX Systems Administrator	Bachelor's degree in computer	3-5 yrs
ONIX Systems Administrator	science	3-5 yrs
Visual Designer	Bachelor's Degree in Information	3-5 yrs
Vioual Designer	Technology	o o yis
Voice Communications Administrator	Associates Degree in communications	
	_	3-5 yrs
Voice Communications Manager - Planning &	Associates Degree in	
Implementation	Communications	
		5-7 yrs
Voice Communications Technician	Associates Degree in	
	Communications	3-5 yrs
Web Content Analyst	Bachelor's degree in Graphic Design,	
	or Graphic Communications,.	
		3-5 yrs
Web Designer	Bachelor's degree in Graphic Design,	
	or Graphic Communications.	
		3-5 yrs
Web Marketing Manager	Bachelor's Degree in computer	
	science	3-5 yrs
Web Operations Manager	Bachelor's Degree in computer	
	science	3-5 yrs
Web Project Manager	Bachelor's Degree in computer	
Mal Occurs A Latitude	science	3-5 yrs
Web Security Administrator	Bachelor's degree in security and	0.5
Wah Casumity Anglish	intelligence	3-5 yrs
Web Security Analyst	Master's degree in security and	2 5 vrc
	intelligence	3-5 yrs

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Web Software Developer	Bachelor's degree in computer	
	science	6-9 yrs
Web Technical Administrator	Bachelor's Degree in Information	
	Technology	3-5 yrs
Writer/Content Designer/Content Strategist	Bachelor's Degree in Information	3-5 yrs
	Technology	-

1. Applications Programmer

Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Designs, codes, tests, debugs, and documents

2. Applications Systems Analyst/ Programmer- Senior

Under general direction, formulates and defines system scope and objectives. Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Prepares detailed specifications from which programs will be written. Designs, codes, tests, debug, and document those programs. Competent to work at the highest technical level of all phases of applications systems analysis and programming activities. May be responsible for completion of a phase of a project. Regularly provides guidance and training to less-experienced analyst/programmers.

3. Chief Information Security Officer

Ensure that all information systems are functional and secure.

4. Client/Server Database Manager

Projects long-range requirements for client/server database administration in conjunction with other managers in the information systems function as well as business function managers. Prepares activity and progress reports regarding the client/server database management section.

5. Client/Server Network/Architect

Top-Level technical expert responsible for design and development of a client/server environment. Advises on selection of technological purchases with regards to processing, data storage, data access, applications development.

6. Communications Analyst- Senior

Under general direction, assists in the planning, design, and implementation of communications networks. Responsible primarily for the assessment and optimization of network design through review and assessment of user needs. Conducts feasibility studies for large projects, develops requests for proposal, evaluates vendor products, and makes recommendations on selection. May

J-54 function as lead position providing guidance and training to less-experienced analysts. Typically requires at least five years of experience in telecommunications with strong emphasis in network design, traffic engineering, equipment vendors, and carriers. Frequently reports to a Data/Voice Communications Manager or Internal Communications Systems Consultant.

7. Communications Facility Engineer

Provides technical direction and engineering knowledge for communications systems infrastructure activities, including planning, designing, and implementing communications infrastructure requirements for buildings and systems. Ensures that adequate and appropriate planning is provided to direct building architects and planners in building communications spaces and media pathways meet industry standards.

8. Communications Transmission Engineer

Provides technical direction and engineering knowledge for communications activities including planning, designing, installing and maintaining large communications networks. Develops, operates, and maintains voice, wireless, video, and

data communications systems. Provides complex engineering or analytical tasks and activities associated with one or more technical areas within the communications function.

9. Computer Operations Manager



Responsible for all activities relating to the operation of centralized data processing equipment and peripheral information systems equipment. Establishes detailed schedules for the utilization of all equipment in the computer operations section to obtain maximum utilization. Assigns personnel to various operations and directs their activities. Reviews and evaluates work and prepares performance reports. Confers with and advises subordinates on administrative policies and procedures, technical problems, priorities, and methods. Consults with personnel in other information systems sections to coordinate activities. Prepares activity and progress reports regarding the computer operations section. Frequently reports to a Director of Information Systems Operations.

10. Consultant

Works with end user groups to evaluate and solve technical problems. Evaluates existing systems and/or user needs to analyze, design, recommend, and implement system changes

11. Data Architect

Designs and builds relational databases. Develops strategies for data acquisitions, archive recovery, and implementation of a database. Works in a data warehouse environment, which includes data design, database architecture, and metadata and repository creation. Translates business needs into long-term architecture solutions. Defines, designs, and builds dimensional databases. Develops data warehousing blueprints, evaluating hardware and software platforms, and integrating systems. Evaluates reusability of current data for additional analyses. Reviews object and data models and the metadata repository to structure the data for better management and quicker access.

12. Data Communications Manager - Planning & Implementation

Ensures that adequate and appropriate planning is provided for remote hardware and communications facilities to develop and implement methodologies for analysis, installation, and support of distributed processing client/server systems. Provides coordination in the analysis, acquisition, and installation of hardware, software, and facilities. Manages the training and efforts of a staff engaged in system and network planning, analysis and monitoring activities. Typically requires eight to ten years of experience in software/hardware LAN and WAN network design and analysis. Frequently reports to a Telecommunications Department Director/Manager or Planning and Engineering Manager.

13. Data Security Administration Manager

Directs and implements the necessary controls and procedures to cost-effectively protect information systems assets from intentional or inadvertent modification, disclosure, or destruction. Provides guidance and direction for the physical protection of information systems assets to other functional units. Provides reports to superiors regarding effectiveness of data security and makes recommendations for the adoption of new procedures. Assigns work to subordinates, monitors performance, and conducts performance appraisals. Interviews and makes recommendations for additional staff.

14. Data Security Analyst - Senior

Under general direction, performs all procedures necessary to ensure the safety of information systems and to protect systems from intentional or inadvertent access or destruction. Interfaces with user community to understand their security needs and implements procedures to accommodate them. Ensures that user community understands and adheres to necessary procedures to maintain security. May require familiarity with domain structures, user authentication, and digital signatures. Conducts accurate evaluation of the level of security required. May require understanding of firewall theory and configuration. Must be able to weigh business needs against security concerns and articulate issues to management

15. Data Warehousing Analyst

Works in a data warehouse environment, which includes data design, database architecture, and metadata and repository creation. Reviews data loaded into the data warehouse for accuracy. Responsible for the development, maintenance and support of an enterprise data warehouse system and corresponding data marts. Troubleshoots



and tunes existing data warehouse applications. Conducts research into new data warehouse applications and determines viability for adoption. Assists in establishing development standards. Evaluates existing subject areas stored in the data warehouse. Incorporates existing subject areas into an enterprise model. Creates new or enhanced components of the data warehouse. Requires two years experience in the field.

16. Data Warehousing Project Manager

Works in a data warehouse environment, which includes data design, database architecture, and metadata and repository creation. Responsible for leading data warehouse team in development and enhancements of the data warehouse user interface. Establishes user requirements. Creates new standards and procedures related to end user and internal interface development. Works with Data Architect on technical issues and system architecture definition. Translates high-level work plans and converts to detailed assignments for team members. Monitors status of assignments and reviews work for completion and quality. Typically requires more than five years of experience.

17. Data/Configuration Management Specialist

Provides configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting, and configuration audits. Regulates the change process so that only approved and validated changes are incorporated into product documents and related software.

18. Database Analyst/ Programmer - Intermediate

Under general supervision, designs, implements and maintains moderately complex databases. Maintains database dictionaries and integration of systems through database design. Competent to work on most phases of database administration but may require some instruction and guidance in other phases. Requires two years experience in the field

19. Database Analyst/ Programmer - Senior

Under general direction, designs, implements and maintains complex database with respect to JCL, access methods, access time, device allocation, validation checks, organization, protection and security, documentation and statistical methods. Includes maintenance of database dictionaries, overall monitoring of standards and procedures and integration of systems through database design. Competent to work at the highest level of all phases of database management. Requires three years experience in the field.

20. Database Manager

Responsible for all activities related to the administration of computerized databases. Assigns personnel to various projects and directs their activities. Reviews and evaluates work and prepares performance reports. Confers with and advises subordinates on administrative policies and procedures, technical problems, priorities, and methods. Consults with and advises users of various databases. Projects long-range requirements for database administration in conjunction with other managers in the information systems function as well as business function managers. Prepares activity and progress reports regarding the database management section. Typically requires five to seven years of experience.

21. Disaster Recovery Analyst

Responsible for security and integrity of assigned electronic data, data systems, and data networks. Designs and administers programs to include policies, standards, guidelines, training programs and a viable quality assurance process for disaster recovery. Oversees and reviews the testing and implementation of software, data systems and data networks to insure that the integrity and security of all electronic data and data systems are adequately protected. Oversees and facilitates the preparation of an organization-wide business resumption plan. Responsible for insuring the business resumption plan adequately addresses the organization's requirements and established time frames. Requires five years experience in the field.

22. Documentation Specialist - Senior



Under general supervision, is responsible for preparing and/or maintaining systems, programming, and operations documentation, procedures, and methods including user manuals and reference manuals. Maintains a current internal documentation library. Provides or coordinates special documentation services as required. Competent to work at the highest level of all phases of documentation. May act as project leader for large positions.

23. Electronic Data Interchange (EDI) Manager

Responsible for daily electronic data interchange (EDI) operations of an organization. Develops and executes strategies for Internet-based interchange capabilities. Coordinates and implements new EDI methods and systems and enhances and upgrades the existing systems. Finds EDI solutions for business operations. Establishes and maintains communications and trading partner routings, including online orders and fulfillment systems. Audits the quality of data provided, provides security and backup, and ensures system disaster recovery processes are in place. Resolves trading partner's technical problems involving EDI. Develops technical design documentation. Ensures customer/vendor agreements meet legal requirements. Responsible for internal training of EDI and related staff.

24. Engineering Subject Matter Specialist- Principal

Provides technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, and implementation advice on exceptionally complex problems that necessitate high-level knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, modeling, simulation, testing, integration, documentation and presentation phases.

25. Engineering Subject Matter Specialist

Provides technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, and implementation advice on exceptionally complex problems that necessitate high-level knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, modeling, simulation, testing, integration, documentation and presentation phases.

26. ERP Business Analyst - Intermediate

Under general supervision, serves as subject matter expert associated with content, processes, and procedures associated with enterprise applications. Applies functional knowledge to design and customize workflow systems that provide seamless integration for client/server applications. Writes functional requirements, develops test plans, and works with production issues

27. ERP Business Analyst - Senior

Under general direction, serves as senior subject matter expert associated with content, processes, and procedures associated with ERP. Defines detailed requirements, analyzes business needs, and validates solutions with the client. Details requirements through product development and other functions to support the project team. Monitors other business analysts in software development methods and processes and implementation of those methods. Evaluates development projects and assists in tailoring the development process to meet the project needs.

28. ERP Programmer

Under general supervision, works primarily in ERP client/server enterprise application. Designs and develops all aspects of data conversion. Builds application tables, panels, and reports. Codes individual modules and complex functions. Develops application tables, panels, and reports for projects. Responsible for software integration and external interface development. Troubleshoots and resolves testing issues. Responsible for technical documentation.

29. Groupware Specialist



Responsible for the implementation, maintenance, and support of organization messaging system. May work closely with first tier support staff to solve system problems. Ensures smooth integration of all groupware systems in a particular environment. Provides technical support on local groupware replication and client dial-up access issues. Prepares documentation that will assist in the maintenance of the groupware system. May serve as an internal consultant to developers, assisting them in the area of server supports, security, ID files, and other development issues that will aid the process. Requires solid working knowledge of WANs, LANs, and telecommunication concepts as they relate to the groupware system and database replication.

30. Help Desk Manager

Has overall responsibility for help desk operations associated with the identification, prioritization and resolution of reported problems. Ensures that all phases of help desk support are properly coordinated, monitored, logged, tracked and resolved appropriately. May maintain responsibility for development, maintenance and integrity of help desk software. Requires 3 years experience in the field.

31. Help Desk Support Services Specialist - Intermediate

Under general supervision, provides second-tier support to end users for either PC, server, or mainframe applications and hardware. Handles problems that the first-tier of help desk support is unable to resolve. May interact with network services, software systems engineering, and/or applications development to restore service and/or identify and correct core problem. Simulates or recreates user problems to resolve operating difficulties. Recommends systems modifications to reduce user problems. Maintains currency and high level of technical skill in field of expertise. Escalates more complex problems to senior level.

32. Help Desk Support Services Specialist - Senior

Under general direction, provides second-tier support to end users for either PC, server, or mainframe applications and hardware. Handles problems that the first-tier of help desk support is unable to resolve. May interact with network services, software systems engineering, and/or applications development to restore service and/or identify and correct core problem. Simulates or recreates user problems to resolve operating difficulties. Recommends systems modifications to reduce user problems. Maintains currency and highest level of technical skill in field of expertise.

33. Information Assurance Development Engineer

Analyzes and defines security requirement for computer systems which may include mainframes, workstations, and personal computers. Designs, develops, engineers, and implements solutions that meet security requirements. Provides integration and implementation of the computer system security solution.

34. Information Assurance Network Specialist

Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems. Designs, develops, engineers, and implements solutions that meet network security requirements. Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle

35. Information Assurance Systems/Network Specialist

Installs, configures and maintains organization's operating systems. Analyzes and resolves problems associated with server hardware, NT, applications software. Detects, diagnoses, and reports NT related problems on both NT server and NT desktop systems. Performs a wide variety of tasks in software/hardware maintenance and operational support of NT Server systems

36. Information Center Consultant

Under general supervision of Information Center Manager, may support unlimited end user groups. Works with users to solve problems with available technology including hardware, software and peripherals. Studies and analyzes systems needs, trains users on software and hardware, handles troubleshooting, and provides quality



assurance review of user systems. Acts as project manager, typically performs time estimates, and regularly reviews status of projects. May have specialization in particular software that would be utilized in an end user environment. Keeps abreast of technological developments and may install new hardware and software for user groups. Frequently reports to an Information Center Manager

37. Information Security Business Analyst

Determines enterprise information security standards. Develops and implements information security standards and procedures. Ensures that all information systems are functional and secure

38. Information Services Consultant

Top-level technical expert supporting unlimited end user groups. Works with user groups to solve business problems with available technology including hardware, software, databases, and peripherals. Requires high level of diverse technical experience related to studying and analyzing systems needs, systems development, systems process analysis, design, and re-engineering. Has skills and experience related to business management, systems engineering, operations research, and management engineering. Typically requires specialization in particular software or business application utilized in an end user environment. Keeps abreast of technological developments and applications.

39. Information Systems Auditor- Senior

Under general direction, audits the most complex new and existing information systems applications to ensure that appropriate controls exist, that processing is efficient and accurate, and that information systems procedures are in compliance with corporate standards. Competent to work at the highest level of all phases of information systems auditing.

40. Information Systems Training Specialist - Senior

Under general direction, organizes, prepares, and conducts complex training and educational programs for information systems or user personnel. May design and develop in-house programs. Maintains records of training activities, employee progress, and program effectiveness. Competent to work at the highest level of all phases of information systems training.

41. Internal Communications Systems Consultant

Provides systems guidance for current and proposed investments in telecommunications and network facilities and/or services from the development of communications software through financial implementation review. Researches present and future communication technologies. Works closely with system users to provide direction/assistance in identification and resolution of user problems. May supervise a group of planning analysts responsible for research/technical assistance for the user group. Typically requires eight to ten years of experience in telecommunications with emphasis on systems analysis, LAN/WAN telecommunications network design, and traffic engineering.

42. IT Subject Matter Specialist

Provides extremely high-level subject matter proficiency for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems that require doctorate level knowledge of the subject matter for effective implementation.

43. LAN Administrator - Intermediate

Under general supervision, responsible for the acquisition, installation, maintenance, and usage of the organization's local area network. Manages LAN performance and maintains LAN security. Ensures that security procedures are implemented and enforced. Installs all network software. Evaluates, develops and maintains telecommunications systems. Troubleshoots LAN problems. Establishes and implements LAN policies, procedures, and standards and ensures their conformance with information systems and organization objectives.



Trains users on LAN operation. Typically requires two to four years of experience. Frequently reports to a PC support manager or Senior LAN Administrator.

44. LAN Support Technician - Intermediate

Under general supervision, monitors and responds to technical control facility hardware and software problems utilizing hardware and software testing tools and techniques. May interface with vendor support service groups to ensure proper escalation during outages or periods of degraded system performance. May assist with installation of terminals and associated hardware. May provide LAN server support. Requires strong knowledge of PC/LAN communications hardware/software, in a multi-protocol environment, and network management software. Typically requires two to four years experience in data communications troubleshooting.

45. LAN Support Technician - Senior

Under general direction, monitors and responds to complex technical control facility hardware and software problems utilizing a variety of hardware and software testing tools and techniques. Provides primary interface with vendor support service groups or provides internal analysis and support to ensure proper escalation during outages or periods of degraded system performance. May provide LAN server support. Requires extensive knowledge of PC/LAN communications hardware/software in a multi-protocol environment and network management software. May function as lead position providing guidance and training for less-experienced technicians. Typically requires at least four years of experience in data communications troubleshooting.

46. LAN/WAN Administrator

Monitors LAN, WAN, and servers. Provides batch monitoring, tape back-up, and restoration. Administers mail system and implements new database architecture. Monitors and conducts performance evaluation of networks. Supports, installs, maintains, and troubleshoots all local area and wide area networking devices and related software for branch offices and internal and external networks.

47. LAN/WAN Integrator

L Responsible for the overall integration of the enterprise-wide network including the planning, design, installation, maintenance, management, and coordination of the corporate LANW AN (may include local, metropolitan, and wide area networks). Has responsibility for technical architecture and recommendations related to LAN/W AN. Is typically a top-level technical contributor with advanced knowledge and experience in the area of local and wide area networking, communications, and related hardware/software. Maintains high level of technical expertise and studies vendor products to determine those which best meet organization needs. Presents information to management, which may result in the purchase and installation of hardware, software, and telecommunications equipment. Recommends network security procedures and policies. Knowledgeable in a multi-platform operating environment. May work with Voce and/or Data Communications Analysts.AN/WAN Integrator

48. LAN/WAN/MAN Administrator

Monitors LAN, WAN, MAN, and servers. Provides batch monitoring, tape back-up, and restoration. Supports, installs, maintains, and troubleshoots all local area and wide area networking devices and related software for branch offices and internal and external networks

49. Network Engineer – Intermediate

Under general supervision, oversees the purchase, installation, and support of network communications, including LAN/W AN systems. Works on problems of diverse scope where analysis of situation requires evaluation and judgment. Responsible for evaluating current systems. Assists in the planning of large-scale systems projects through vendor comparison and cost studies. Requires thorough knowledge of LAN/W AN systems, networks, and applications. Typically requires two to five years of experience.

50. Network Engineer - Senior



Under general direction, manages the purchase, installation, and support of network communications, including LAN/WAN systems. Responsible for evaluating current systems. Works on complex problems where analysis of situation requires in-depth evaluation of various factors. Plans large-scale systems projects through vendor comparison and cost studies. Provides work leadership and training to lower level network engineers. Requires expert knowledge of LAN/WAN systems, networks, and applications. Typically requires at least five years of experience.

51. Network Operations Supervisor

Provides first level guidance/direction (either as a full-time supervisory position or on a project management basis) to network operation and maintenance analysts, technicians, and/or engineers. Performs technical analysis of complex software, hardware, and transmission facility using various diagnostic tools in support of efficient network operations. Provides guidance/direction for engineering efforts and test and evaluation programs. Performs on-site engineering when required. Typically requires five years of experience in operations, maintenance, and sustained engineering of LAN to WAN internetworking. Frequently reports to a Regional Manager or Operations Manager.

52. Network Planning Analyst - Intermediate

Under general supervision, plans and evaluates moderately complex existing network systems and makes recommendations for resources required to maintain and/or expand service levels. Provides assistance in network planning, engineering, architecture, and the development of technical standards and interface applications. Evaluates new products as assigned. Provides resolution for network problems. Typically requires four to six years of experience in telecom networks. Frequently reports to a higher Network Planning position or a Telecommunications Department Director/Manager.

53. Network Planning Analyst - Senior

Under general direction, plans and evaluates complex existing network systems and makes recommendations for resources required to maintain and/or expand service levels. Provides highly skilled technical assistance in network planning,

engineering, and architecture. Develops technical standards and interface applications, identifies and evaluates new products, and provides resolution for network problems. May interface with vendors to identify and purchase hardware and software. May function as lead position for other Network Planning Analysts. Typically requires six to eight years of experience in telecom networks. Frequently reports to a Telecommunications Department Director/Manager or a higher Network Planning position

54. Network Planning Manager

Responsible for long-term strategic planning to ensure network capacity meets current and future network requirements including planning for remote hardware and communications facilities, development and implementation of methodologies for system analysis, installation, and support. Defines and develops methodology to ensure compatibility of all software and hardware products at each facility. Provides ongoing coordination in the analysis, acquisition, and installation of remote hardware and software. May supervise Network Planning Analysts. Typically requires six to eight years of experience. Frequently reports to a Telecommunications Department Director/Manager or Planning and Engineering Manager.

55. Network Systems Administrator

Provides system administration of Network, Web, and/or communication systems, including Local Area Network (LAN) and Wide Area Network (WAN)

J-18 systems, involving network security. Prepares technical implementation plans that provide integrated solutions including actions, milestones, timelines and critical paths required for complete solutions.

56. Network Systems Manager

Supervises all personnel engaged in the operation and support of network facilities, including all communications equipment in large scale or multi-shift operations. Supervises complex operations that involve two or more



additional functions such as, but not limited to, network operations, systems security, systems software support, and production support activities

57. Network/Hardware Support Technician

Monitors and responds to hardware, software, and network problems. Provides the routine testing and analysis of all elements of the network facilities (including power, software, communications machinery, lines, modems, and terminals). Monitors and controls the performance and status of the network resources.

58. Operations Manager - Data Communications

Manages all aspects of the daily operation for data network(s) in either a stand-alone data network environment in a voice and data separated network environment. Develops project plans for the implementation of new telecommunications technology and systems. Directs technical analysis of complex software, hardware, and transmission systems. Coordinates with vendors involved in providing communication activities

59. Operations Systems Manager

Provides assistance and oversight for all information systems operations activities, including computer and telecommunications/communications operations, data entry, data control, operations support, operating systems programming, system security policy procedures, and/or web strategy and operations. Provides input to policy level discussions regarding standards and budget constraints.

60. Operations/ Technical Support Manager

Provides technical guidance for directing and monitoring information systems operations. Implements machine modifications to increase the capacity of the system. Directs compilation of records and reports concerning production, machine malfunctioning and maintenance.

61. Operations/Network LAN Administrator

Supports, monitors, tests, and troubleshoots hardware and software problems pertaining to LAN. Recommends and schedules repairs. Provides end users support for all LAN- based applications. Installs and configures workstations

62. Operations/Technical Support Analyst

Provides technical guidance for directing and monitoring information systems operations. Implements machine modifications to increase the capacity of the system. Directs compilation of records and reports concerning production, machine malfunctioning and maintenance

63. PC/LAN Mgmt Analyst - Senior

Under general direction, provides consultation to business area management and staff at the highest technical level for all aspects of PC/LAN design and configuration in a multi-server environment. Plans and coordinates the installation of new or modified Local Area Networks and installs and coordinates the resolution of network problems or malfunctions. Provides technical support and guidelines to client and systems areas through documentation. Requires experience with Token Ring

64. Project Engineer

Manages long-term IT engineering projects. Performs engineering design evaluations and works to complete projects within budget and scheduling restraints. Develops, implements, and monitors information systems policies and controls to ensure data accuracy, security, and regulatory compliance. Reviews reports of computer and peripheral equipment production, malfunction, and maintenance to determine and address problems.

65. Project Manager - Senior



Responsible for all aspects of the development and implementation of assigned projects and provides a single point of contact for those projects. Takes projects from original concept through final implementation. Interfaces with all areas affected by the project including end users, computer services, and client services. Defines project scope and objectives. Develops detailed work plans, schedules, project estimates, resource plans, and status reports. Conducts project meetings and is responsible for project tracking and analysis. Ensures adherence to quality standards and reviews project deliverables. Manages the integration of vendor tasks and tracks and reviews vendor deliverables. Provides technical and analytical guidance to project team. Recommends and takes action to direct the analysis and solutions of problems.

66. Quality Assurance Analyst - Intermediate

Under general supervision, carries out procedures to ensure that all information systems, products and services meet minimum organization standards and end-user requirements. Thoroughly tests software to ensure proper operation and freedom from defects. Documents and works to resolve all problems. Reports progress on problem resolution to management. Devises improvements to current procedures and develops models of possible future configurations. Performs workflow analysis and recommends quality improvements. Frequently reports to a Quality Assurance Manager

67. Quality Assurance Analyst - Senior

Under general direction, carries out procedures to ensure that all information systems, products and services meet organization standards and end-user requirements. Performs and leads tests of software to ensure proper operation and freedom from defects. May create test data for applications. Documents and works to resolve all complex problems. Reports progress on problem resolution to management. Devises improvements to current procedures and develops models of possible future configurations. Acts as information resource about assigned areas to technical writers and other Quality Assurance Analysts. Performs complex workflow analysis and recommends quality improvements. Frequently reports to a Quality Assurance Manager

68. Quality Assurance Specialist

Provides development of project Software Quality Assurance Plan and the implementation of procedures that conforms to the requirements of the contract. Provides an independent assessment of how the project's software development process is being implemented relative to the defined process and recommends methods to optimize the organization's process

69. Security Coordinator

Coordinates, develops, and evaluates security programs for an organization

70. Site Manager

Provides applications systems analysis and programming activities for a Government site, facility or multiple locations. Prepares long and short-range plans for application selection, systems development, systems maintenance, and production activities and for necessary support resources.

71. Software Architect

Works independently designing and developing new software products or major enhancements to existing software. May lead a large development team in the design of highly complex software systems. Acts as highest-level technical expert, addressing problems of systems integration, compatibility, and multiple platforms. Responsible for project completion. Performs feasibility analysis on potential future projects to management

72. Software Developer - Senior

Under general direction, participates as high-level technical expert in design development, coding, testing, and debugging new software or significant enhancements to existing software. Works with technical staff to understand problems with software and develops specifications to resolve them. Resolves customer complaints and responds to suggestions for improvements and enhancements. Participates in the development of software



user manuals. May act as team leader on less complex projects. Assists in training less experienced software development staff. Requires five years experience in the field.

73. Software Systems Engineer – Intermediate

Under general supervision, works from specifications to develop or modify moderately complex software programming applications. Assists with design, coding, benchmark testing, debugging, and documentation of programs. Applications generally deal with utility programs, position control language, macros, subroutines, and other control modules. Competent to work on most phases of software systems programming applications, but requires instruction and guidance in other phases.

74. Software Systems Engineer - Senior

Under general direction, formulates and defines specifications for complex operating software programming applications or modifies/maintains complex existing applications using engineering releases and utilities from the manufacturer. Designs, codes, tests, debugs, and documents those programs. Responsible for applications dealing with the overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting, and advanced mathematical/scientific software packages. Competent to work at this highest technical level on all phases of software systems programming applications. May have responsibility for the evaluation of new and existing software products. May assist other systems programmers to effectively utilize the system's technical software.

75. Strategic Planner

Provides strategic planning of large projects or a significant segment of a strategic planning portion of a large complex project. Provides the overall approach to clarify mission statements so they can be used as springboards in envisioning their desired future. Assists in developing mission and vision statements, subsequent goal delineation, provides guidance for building operational plans and specifying measurable outcomes to include capital outlay planning efforts in a consolidated strategic planning process and prioritizes those initiatives

76. Systems Administrator - Intermediate

Under general supervision, responsible for installing, configuring, and maintaining operating system workstations and servers, including web servers, in support of business processing requirements. Performs software installations and upgrades to operating systems and layered software packages. Schedules installations and upgrades and maintains them in accordance with established IT policies and procedures. Monitors and tunes the system to achieve optimum performance levels. Ensures workstation/server data integrity by evaluating, implementing, and managing appropriate software and hardware solutions. Ensures data/media recoverability by implementing a schedule

of system backups and database archive operations. Supports media management through internal methods and procedures or through offsite storage and retrieval services. Develops and promotes standard operating procedures. Conducts routine hardware and software audits of workstations and servers to ensure compliance with established standards, policies, and configuration guidelines. Develops and maintains a comprehensive operating system hardware and software configuration database/library of all supporting documentation.

77. Systems Administrator – Senior

Under general direction, responsible for activities related to system administration. Assigns personnel to various projects, directs their activities, and evaluates their work. Ensures long-term requirements of systems operations and administration are included in the overall information systems planning of the organization. Responsible for the installation, maintenance, configuration, and integrity of computer software. Implements operating system enhancements that will improve the reliability and performance of the system

78. Systems Analysis and Programming Director

Develops software within an organization. Directs the software engineering function in developing, releasing, and maintaining software applications/operating systems according to business needs



79. Systems Engineer

Performs a variety of systems engineering tasks and activities that are broad in nature and are concerned with major systems design, integration, and implementation, including personnel, hardware, software, budgetary, and support facilities and/or equipment. Provides quality assurance review and the evaluation of new and existing software products.

80. Systems Management Technologist

Analyzes, develops, operates, and maintains software libraries and catalogs. Provides support and direction for user groups in the use of the software/hardware systems and programs to support an integrated system.

81. Technical Writer

Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses. Coordinates the display of graphics and the production of the document

82. Telecommunications Engineer/ Analyst - Intermediate

Under general supervision, responsible for moderately complex engineering and/or analytical activities associated with one or more technical areas within the telecom function (such as, but not limited to, network design, engineering, implementation, or operations/user support). Typically requires two to four years of technical telecom experience.

83. Telecommunications Engineer/ Analyst - Senior

Under general direction, responsible for complex engineering and/or analytical tasks and activities associated with one or more technical areas within the telecom function such as, but not limited to, network design, engineering, implementation, or operations/user support. Typically requires six to eight years of technical telecom experience.

84. Telecommunications Manager - Multiple Incumbents

A multiple incumbent position with broad management responsibility for all areas of the telecommunications function. Position may be structured to address the needs of individual "customer" groups (e.g., organization divisions or business lines) or may reflect total management responsibilities (including planning, engineering, implementation, and operations) for either voice or data communications in a separated network environment. Manages/coordinates day-to-day planning, design, operations, maintenance, and resource allocation including client server support and strategic and tactical planning. Coordinates with customers, vendors, and corporate management. May be responsible for billing systems. Interfaces with Senior/Executive Management to coordinate telecommunications plans with overall business plan. Frequently reports to Telecommunications Management or information systems management.

85. Telecommunications Manager - Single Incumbent

A single incumbent position with broad management responsibility for all areas of the telecommunications function. Manages and coordinates the day-to-day planning, design, operations, and maintenance of the telecommunications voice and/or data networks including client server support consistent with customer needs, organization objectives, and technological resources. Responsible for telecommunications strategic and tactical planning. Coordinates with customers, vendors, and corporate management. Responsible for department resource allocation. May be responsible for billing systems. Interfaces with Senior/Executive Management to coordinate telecommunications plans with organization's business plan

86. Telecommunications Network Help Desk

Responds to user complaints to research complex problems associated with the organization's telecommunications networks (voice and/or data). Diagnoses problem source through discussions with users. Coordinates with internal company support and operations groups and/or with vendors to resolve problems. Follows up with users to ensure problem has been resolved. Develops supporting documentation of all activities.



87. Telecommunications Programmer/ Systems Analyst - Senior

Under general direction, develops telecommunications software solutions to address user needs. Interfaces with users to define needs. Designs, develops, and tests complex communications software interface programs. Primary responsibilities usually include technical feasibility studies and design phases of project. Requires strong knowledge of communication protocols, hardware, and real time operating system programming. May serve as project leader for lower level programmers. Requires high level of proficiency in one or more programming languages such as Assembler, FORTRAN, or "C". Typically requires four to six years of experience in telecommunications programming.

88. Telecommunications/Communications Integration Engineer

Provides technical direction and analysis for telecommunication activities, including planning, designing, integrating, installing and maintaining large-scale telecommunications/communications networks and services with computer systems. Applies telecommunications/communications engineering principles and theory to propose design and configuration alternatives. Analyzes network performance, usage and traffic flows, accesses and interfaces, transmission techniques, and protocols to interface with computer systems

89. Test Engineer

Subject matter specialist providing testing know-how in for the support of user requirements of complex to highly complex software/hardware applications. Directs and/or participates in all phases of risk management assessments and software/hardware development with emphasis on analysis of user requirements, test design and test tools selection

90. UNIX Systems Administrator

Perform routine tasks under the direct supervision of a more experienced administrator. Be the front-line interface for users; accepting problem reports and passing them to the appropriate system administrators. Performs some security functions, especially monitoring the system

91. Voice Communications Administrator

Monitors and responds to facility hardware and software problems. Assists vendor support service groups to ensure proper escalation during outages or periods of degraded system performance. Makes phone system additions, changes, and installs new station equipment. Requires knowledge of monitoring equipment.

92. Voice Communications Manager - Planning & Implementation

Ensures that adequate and appropriate planning is provided for remote hardware and communications facilities to develop and implement methodologies for analysis, installation, and support of voice communications systems. Provides coordination in the analysis, acquisition, and installation of remote hardware and software. Interfaces with internal and external customers and vendors to determine system needs. Manages the training and efforts of a staff responsible for system and network planning and analysis activities. May include billing/chargeback responsibilities. Typically requires at least eight to ten years of experience in software/hardware voice network design and analysis usually in a telephone operating organization. Frequently reports to a Telecommunications Department Director/Manager or Planning and Engineering Manager

93. Voice Communications Technician

Monitors and responds to complex technical control facility hardware and software problems. Interfaces with vendor support service groups to ensure

proper escalation during outages or periods of degraded system performance. Maintains PBX/systems and associated hardware.

94. Web Content Analyst



Provides for development and content that will motivate and entertain users so that they regularly access the website and utilize it as a major source for information and decision-making. Provides managing/performing website editorial activities including gathering and researching information that enhances the value of the site.

95. Web Designer

Under direct supervision, designs and builds web pages using a variety of graphics software applications, techniques, and tools. Designs and develops user interface features, site animation, and special effects elements. Contributes to the design group's efforts to enhance the appeal of the organization's online offerings. Designs the website to support the organization's strategies and goals relative to external communications. Typically requires one to three years of experience in the area of web design. Requires knowledge of web-based technologies including browsers ASP pages, HTML code, object-oriented technology, and graphics software.

96. Web Marketing Manager

Responsible for developing and implementing the organization's web strategies for promoting products and services through strategic marketing on the website. Responsible for assisting in the creation and implementation of the web marketing plan. Works closely with design and content management team to ensure site meets marketing objectives. Monitors site access patterns to adjust strategies and plans. Requires understanding of web technologies

97. Web Operations Manager

Responsible for ongoing oversight of web strategy and operations. Develops business plan and annual budget for website function. Accountable for budget, staff planning, management, and product and service delivery. Oversees operational activities of the website(s) with specific attention aimed at content creation and website maintenance. Requires experience with web technologies and web page design.

98. Web Project Manager

Serves as project manager of a development team responsible for planning, developing, and deploying websites including preparation of text, graphics, audio, and video for web pages. Works directly with partners and clients to determine project scope and specifications. Coordinates the work of design and development teams to implement online designs. Reviews progress, manages resources, and ensures overall quality of completed website. Typically requires experience in management and understanding of web technologies.

99. Web Security Administrator

Under general supervision, performs all procedures necessary to ensure the safety of the organization's website and transactions across the Internet including the protection of confidential order information and external business-to-business connections. Applies Internet firewall and encryption technologies to maintain organizational and customer security. Ensures that the user community understands and adheres to established security procedures. Updates and deletes users, monitors and performs follow-up compliance violations, and develops security policies and practices and guidelines. Requires experience in Firewall/DMZ design and implementation

100. Web Security Analyst

Performs all procedures necessary to ensure the safety of the organization's website and transactions across the Internet/intranet. Applies Internet firewall technologies to maintain security. Ensures that the user community understands and adheres to necessary procedures to maintain security. Updates and deletes users, monitors and performs follow-up on compliance violations, and develops security policies, practices, and guidelines.

101. Web Software Developer

Designs, develops, troubleshoots, debugs, and implements software code (such as HTML, CGI, and JavaScript) for a component of the website. Works with graphic designers and other members of a project team to develop the site concept, interface design, and architecture of the website. Responsible for interface implementation. Integrates web applications with backend databases. Deploys large web-based transaction systems using



application servers. Researches, tests, builds, and coordinates the integration of new products per production and client requirements. Requires strong navigation and site-design instincts. Requires development experience in web-based languages.

102. Web Technical Administrator

Under general supervision, responsible for achieving overall technical integrity of organization's website. Maintains and upgrades hardware and software including website technical architecture related to hardware and telecommunication connectivity. Administers e-mail, chat and FTP services. Communicates router configuration changes and troubleshoots system errors and bugs. Maintains servers, creates monitoring reports and logs, and ensures functionality of links. Creates tools to ease production process. Automates routine procedures. Works on system-level services to ensure proper patch levels on applications and operating systems. Monitors database integrity. Monitors site for acceptable performance and user accessibility. Establishes backups and monitors site security. Typically requires experience in systems technologies

AGILE LABOR DESCRIPTIONS

103. Product Manager

Experience managing the delivery, ongoing success, and continuous improvement of one or more digital products and/or platforms.

Primarily responsible for:

- Lead one or more multi-disciplinary agile delivery teams to deliver excellent new products and/or iterations to existing products to meet user needs
- Gather user requirements based on a communicable understanding of diverse audience groups
- Define and get stakeholder buy-in for product definition and delivery approach
- Create effective, prioritized product descriptions, and delivery plans to meet user needs in a cost-effective way
- Interpret user research in order to make the correct product decisions, noting that users do not always know what they want
- Continually keep abreast of changes to user habits, preferences, and behaviors across various digital platforms and their implications for successful delivery of government digital services
- Underpin the delivery and iteration of digital services through effective analysis of qualitative and quantitative user data
- Communicate credibly with a wide range of digital delivery disciplines and talent

104. Technical Architect

Experience serving as the manager of complex technology implementations, with an eye toward constant reengineering and refactoring to ensure the simplest and most elegant system possible to accomplish the desired need.

Understands how to maximally leverage the open source community to deploy systems on infrastructure as a service providers. Comfortable with liberally sharing knowledge across a multi-disciplinary team and working within agile methodologies. A full partner in the determination of vision, objectives, and success criteria.

Primarily responsible for:

- Architecting the overall system, by using prototyping and proof of concepts, which may include:
- o modern programming languages (e.g., Ruby, Python, Node.js) and web frameworks (e.g., Django, Rails)
- o modern front-end web programming techniques (e.g., HTML5, CSS3, RESTful APIs) and frameworks (e.g., Twitter Bootstrap, jQuery)
- o relational databases (e.g., PostgreSQL), and "NoSQL" databases (e.g., Cassandra, MongoDB)
- o automated configuration management (e.g., Chef, Puppet, Ansible, Salt), continuous integration/deployment, and continuous monitoring solutions
- Use of version control systems, specifically Git and GitHub
- Ensuring strategic alignment of technical design and architecture to meet business growth



and direction, and stay on top of emerging technologies

- Decomposing business and system architecture to support clean-interface multi-team development
- Developing product roadmaps, backlogs, and measurable success criteria, and writing user stories (i.e., can establish a path to delivery for breaking down stories)
- Clearly communicates and works with stakeholders at every level

105. Interaction Designer/User Researcher/ Usability Tester

The Interaction Designer / User Researcher / Usability Tester is part of a highly collaborative, multi-disciplinary team focused on improving usability, user experience, and driving user adoption and engagement. They are responsible for conducting user research, analysis & synthesis, persona development, interaction design, and usability testing to create products that delight our customers.

Primarily responsible for:

- Conduct stakeholder interviews, user requirements analysis, task analysis, conceptual modeling, information architecture, interaction design, and usability testing
- Design and specify user interfaces and information architecture
- Lead participatory and iterative design activities, including observational studies, customer interviews, usability testing, and other forms of requirements discovery
- Produce user requirements specifications & experience goals, personas, storyboards, scenarios, flowcharts, design prototypes, and design specifications
- Effectively communicate research findings, conceptual ideas, detailed design, and design rationale and goals both verbally and visually
- Plan and facilitate collaborative critiques and analysis & synthesis working sessions
- Work closely with visual designers and development teams to ensure that customer goals are met and design specifications are delivered upon
- Designs and develops primarily internet/web pages and applications
- Develops proof-of-concepts and prototypes of easy-to-navigate user interfaces (UIs) that consists of web pages with graphics, icons, and color schemes that are visually appealing
- Researches user needs as well as potential system enhancements
- Has familiarity to, or may actually: code, test, debug documents, and implement web applications using a variety of platforms
- Planning, recruiting, and facilitating the usability testing of a system
- Analyzing and synthesizing the results of usability testing in order to provide recommendations for change to a system
- May create such artifacts as Usability Testing Plan, Testing Scripts, and Usability Testing Report

106. Visual Designer

The Visual Designer starts with a deep understanding of the goals of customers and the business so that they can create experiences that delight. Visual Designers will be well-versed in all aspects of current visual design standards and trends and will be responsible for managing project design reviews, resource planning, and execution for all project work related to visual design.

Primarily responsible for:

- Oversees all visual design efforts
- Guides, mentors, and coaches team members while leading projects to successful completion
- Develops and maintains relationships with key peers in Marketing, Branding, UX leaders, IT leaders, and others to identify and plan creative solutions
- Manages external service resources and budgets for visual design
- Ensures successful completion of all work executed by the team (on time, on budget, and ensuring quality)
- Ensures compliance with the project management methodologies and the Project Management Office processes and standards
- Develops, maintains, and ensures compliance of application release management, outage



• Defines, creates, communicates, and manages resource plans and other required project documentation such as style guides and provides updates as necessary

107. Writer/Content Designer/ Content Strategist

Experience developing the strategy and execution of content across digital channels. Primarily responsible for:

- Improves content creation efforts by helping to lead the research & development of interactive and experiential storytelling for projects
- Advise how to improve the ongoing iteration of content models
- Collaborate with designers and other content strategists to improve how the effectiveness of digital, print, and other content is measured
- Develop and maintain appropriate voice for produced content
- Advise how to streamline content production and management solutions and processes, based on user research
- Assign, edit, and produce content for products, services, and various projects
- Plan and facilitate content strategy workshops and brainstorming sessions on developing content and content services (including API development)
- Collaborate closely with developers and designers to create, test, and deploy effective content marketing experiences using the Agile method of software development
- Offer educated recommendations on how to deliver a consistent, sustainable and standards-driven execution of content strategy across products, services, and projects
- Collaborate with content managers, writers, information architects, interaction designers, developers, and content creators of all types
- Participate, as needed, on an Agile software development scrum teams

108. Frontend Web Developer

Experience using modern, frontend web development tools, techniques, and methods for the creation and deployment of user-facing interfaces. Is comfortable working in an agile and lean environment to routinely deploy changes.

Primarily responsible for:

- Frontend web development using modern techniques and frameworks (e.g., HTML5, CSS3, CSS frameworks like LESS and SASS, Responsive Design, Bourbon, Twitter Bootstrap)
- JavaScript development using modern standards, including strict mode compliance, modularization techniques and tools, and frameworks and libraries (e.g., jQuery, MV* frameworks such as Backbone.js and Ember.js, D3)
- Consuming RESTful APIs
- Using and working in team environments that use agile methodologies (e.g., Scrum, Lean)
- Use of version control systems, specifically Git and GitHub
- Ensuring Section 508 Compliance
- Quickly researching and learning new programming tools and techniques
- Using and working with open source solutions and community
- Creating web layouts from static images
- Creating views and templates in full-stack frameworks like Rails, Express, or Django

109. Backend Web Developer

Experience using modern, open source software to prototype and deploy backend web



applications, including all aspects of server-side processing, data storage, and integration with frontend development.

Primarily responsible for:

- Web development using open-source web programming languages (e.g., Ruby, Python) and frameworks (e.g., Django, Rails)
- Developing and consuming web-based, RESTful APIs
- Using and working in team environments that use agile methodologies (e.g., Scrum, Lean)
- Authoring developer-friendly documentation (e.g., API documentation, deployment operations)
- Test-driven development
- Use of version control systems, specifically Git and GitHub
- Quickly researching and learning new programming tools and techniques

110. DevOps Engineer

Experience serving as the engineer of complex technology implementations in a product-centric environment. Comfortable with bridging the gap between legacy development or operations teams and working toward a shared culture and vision. Works tirelessly to arm developers with the best tools and ensuring system uptime and performance.

Primarily responsible for:

• Deploying and configuring services using infrastructure as a service providers (e.g., Amazon Web Services, Microsoft Azure, Google Compute Engine,

RackSpace/OpenStack)

- Configuring and managing Linux-based servers to serve a dynamic website
- Debugging cluster-based computing architectures
- Using scripting or basic programming skills to solve problems
- Installation and management of open source monitoring tools
- Configuration management tools (e.g., Puppet, Chef, Ansible, Salt)
- Architecture for continuous integration and deployment, and continuous monitoring
- Containerization technologies (e.g., LXC, Docker, Rocket)

111. Security Engineer

Experience serving as the security engineer of complex technology implementations in a product-centric environment. Comfortable with bridging the gap between legacy development or operations teams and working toward a shared culture and vision. Works tirelessly to ensure help developers create the most secure systems in the world while enhancing the privacy of all system users. Experience with white-hat hacking and fundamental computer science concepts strongly desired.

Primarily responsible for:

- Performing security audits, risk analysis, application-level vulnerability testing, and security code reviews
- Develop and implement technical solutions to help mitigate security vulnerabilities
- Conduct research to identify new attack vectors

112. Delivery Manager

Experience setting up teams for successful delivery by removing obstacles (or blockers to progress), constantly helping the team to become more self-organizing, and enabling the work



the team does rather than impose how it's done.

Manages one or more agile projects, typically to deliver a specific product or transformation via a multi-disciplinary, high-skilled digital team. Adept at delivering complex digital projects, breaking down barriers to the team, and both planning at a higher level and getting into the detail to make things happen when needed.

Defines project needs and feeds these into the portfolio/program process to enable resources to be appropriately allocated.

Primarily responsible for:

- Deliver projects and products using the appropriate agile project management methodology, learning & iterating frequently
- Work with the Product Manager to define the roadmap for any given product and translate this into user stories
- Lead the collaborative, dynamic planning process -- prioritizing the work that needs to be done against the capacity and capability of the team
- Matrix-managing a multi-disciplinary team
- Ensure all products are built to an appropriate level of quality for the stage (alpha/beta/production)
- Actively and openly share knowledge of best practices

113. Agile Coach

Experience transforming initiatives to deliver lasting change within agencies that focus on delivering value for citizens. Coaches may be required to work either:

- at the team level, working with teams to ensure that delivery teams within agencies are adopting agile and performing effectively
- at the portfolio or program level, to help agencies to establish the right processes for managing a portfolio of work in an agile way
- at the organization level, to drive strategic change across the organization and ensure that adoption of agile techniques is embedded from the most senior levels of the organization
- or across all levels to ensure that organizations adopt a pragmatic approach to the way in which they govern delivery and continuous improvement of digital services Primarily responsible for:
- Embed an agile culture using techniques from a wide range or agile and lean methodologies and frameworks, but be methodology agnostic
- Help to create an open and trust-based environment, which enables a focus on delivery and facilitates continuous improvement
- Assess the culture of a team or organization and delivery processes in place to identify improvements and facilitate these improvements with the right type of support
- Showcase relevant tools and techniques such as coaching, advising, workshops, and mentoring
- Engage with stakeholders at all levels of the organization
- Develop clear lines of escalation, in agreement with senior managers
- Ensure any stakeholder can easily find out an accurate and current project or program status, without disruption to delivery
- Work effectively with other suppliers and agencies
- Apply best tools and techniques to: team roles, behaviors, structure and culture, agile ceremonies and practices, knowledge transfer and sharing, program management, crossteam coordination, and overall governance of digital service delivery
- Ensure key metrics and requirements that support the team and delivery are well defined and maintained
- Equip staff with the ability to coach others
- If organization level, executive coaching on the fundamental considerations of digital



114. Business Analyst

Familiar with a range of digital/web services and solutions, ideally where open source and cloud technologies and agile development methodologies have been applied. An eye for detail, excellent communication skills, ability to rationalize complex information to make it understandable for others to work, and ability to interrogate reported information and challenge sources where inconsistencies are found.

Primarily responsible for:

- Support agencies by analyzing propositions and assessing decision-making factors such as strategic alignment, cost/benefit, and risk
- Work closely with the Product Manager to define a product approach to meet the specified user need
- Define skill requirements and map internal, agency, and external (partners/specialist contractors) resources
- Work with the owning agency to ensure they have the budget to cover the proposed approach and resource requirements during delivery and analyze what provision they have for on going running costs
- Analyze and map the risks of this product approach and propose mitigation solutions
- Define how the predicted user and financial benefit can be realized, and how channel shift will be measured
- Make a recommendation for action against the analysis done

115. Digital Performance Analyst

Experience specifying, collecting, and presenting key performance data and analysis for a given digital service. Supports Product Managers by generating new and useful information and translating it into actions that will allow them to iteratively improve their service for users. Possesses analytical and problem-solving skills necessary for quickly developing recommendations based on the quantitative and qualitative evidence gathered via web analytics, financial data, and user feedback. Confident in explaining technical concepts to senior officials with limited technological background. And comfortable working with data, from gathering and analysis through to design and presentation. Primarily responsible for:

- Support the Product Manager to make sure their service meets performance requirements
- Communicate service performance against key indicators to internal and external stakeholders
- Ensure high-quality analysis of agency transaction data
- Support the procurement of the necessary digital platforms to support automated and realtime collection and presentation of data
- Share examples of best practice in digital performance management across government
- Identify delivery obstacles to improving transactional performance in agencies and working with teams to overcome those obstacles



IT Labor Support SIN 132-51

Part Number	Labor Category Title	Price/Hr.	
FUL003	Applications Programmer	\$	81.00
FUL004	Applications Systems Analyst/ Programmer – Senior	\$	101.00
FUL005	Chief Information Security Officer	\$	100.00
FUL006	Client/Server Database Manager	\$	89.00
FUL007	Client/Server Network Architect	\$	129.00
FUL008	Communications Analyst - Senior	\$	87.00
FUL009	Communications Facility Engineer	\$	89.00
FUL010	Communications Transmission Engineer	\$	93.00
FUL011	Computer Operations Manager	\$	106.00
FUL012	Consultant	\$	137.00
FUL013	Data Architect	\$	86.00
. 020.0	Data Communications Manager - Planning & Implementation	*	30.00
FUL014		\$	66.00
FUL015	Data Security Administration Manager	\$	99.00
FUL016	Data Security Analyst - Senior	\$	98.00
FUL017	Data Warehousing Analyst	\$	89.00
FUL018	Data Warehousing Project Manager	\$	141.00
FUL019	Data/Configuration Management Specialist	\$	74.00
FUL020	Database Analyst/ Programmer - Intermediate	\$	99.00
FUL021	Database Analyst/ Programmer – Senior	\$	66.00
FUL022	Database Manager	\$	68.00
FUL023	Disaster Recovery Analyst	\$	97.00
FUL024	Documentation Specialist - Senior	\$	81.00
FUL025	Electronic Data Interchange (EDI) Manager	\$	86.00
FUL026	Engineering Subject Matter Specialist- Principal	\$	360.00
FUL027	Engineering Subject Matter Specialist	\$	174.00
FUL028	ERP Business Analyst - Intermediate	\$	102.00
FUL029	ERP Business Analyst - Senior	\$	107.00

FUL030	ERP Programmer	\$ 121.00
FUL031	Groupware Specialist	\$ 56.00
FUL032	Help Desk Manager	\$ 60.00
FUL033	Help Desk Support Services Specialist - Intermediate	\$ 60.00
FUL034	Help Desk Support Services Specialist - Senior	\$ 68.00
FUL035	Information Assurance Development Engineer	\$ 130.00
FUL036	Information Assurance Network Specialist	\$ 116.00
FUL037	Information Assurance Systems/Network Specialist	\$ 85.00
FUL038	Information Center Consultant	\$ 89.00
FUL039	Information Security Business Analyst	\$ 85.00
FUL040	Information Services Consultant	\$ 135.00
FUL041	Information Systems Auditor- Senior	\$ 63.00
FUL042	Information Systems Training Specialist - Senior	\$ 114.00
FUL043	Internal Communications Systems Consultant	\$ 98.00
FUL044	IT Subject Matter Specialist	\$ 101.00
FUL045	LAN Administrator - Intermediate	\$ 71.00
FUL045	LAN Support Technician - Intermediate	\$ 60.00
FUL047	LAN Support Technician - Senior	\$ 66.00
FUL047 FUL048	LAN/WAN Administrator	
	LAN/WAN Integrator	\$ 71.00
FUL049	LAN/W AN/MAN Administrator	\$ 85.00
FUL050	Network Engineer - Intermediate	\$ 73.00
FUL051	Network Engineer - Senior	\$ 95.00
FUL052	Network Operations Supervisor	\$ 120.00
FUL053	Network Planning Analyst - Intermediate	\$ 102.00
FUL054	Network Planning Analyst - Senior	\$ 92.00
FUL055	Network Planning Manager	\$ 108.00
FUL056	Network Systems Administrator	\$ 110.00
FUL057	Network Systems Manager	\$ 77.00
FUL058	Network/Hardware Support Technician	\$ 87.00
FUL059	Operations Manager - Data Communications	\$ 69.00
FUL060		\$ 109.00
FUL061	Operations Systems Manager	\$ 92.00
FUL062	Operations/ Technical Support Manager	\$ 94.00
FUL063	Operations/Network LAN Administrator	\$ 71.00

FUL064	Operations/Technical Support Analyst	\$	103.00
FUL065	PC/LAN Mgmt Analyst – Senior	\$	102.00
FUL066	Project Engineer	\$	120.00
FUL067	Project Manager – Senior	\$	69.55
FUL068	Quality Assurance Analyst - Intermediate	\$	56.00
FUL069	Quality Assurance Analyst - Senior	\$	60.00
FUL070	Quality Assurance Specialist	\$	60.00
FUL071	Security Coordinator	\$	122.00
FUL072	Site Manager	\$	73.00
FUL073	Software Architect	\$	129.00
FUL074	Software Developer – Senior	\$	86.00
FUL075	Software Systems Engineer - Intermediate	\$	101.00
FUL076	Software Systems Engineer - Senior	\$	98.00
FUL077	Strategic Planner	\$	45.00
FUL078	Systems Administrator - Intermediate	\$	91.00
FUL079	Systems Administrator - Senior	\$	125.00
FUL080	Systems Analysis and Programming Director	\$	139.00
FUL081	Systems Engineer	\$	99.00
FUL082	Systems Management Technologist	\$	60.00
FUL083	Technical Writer	\$	40.00
FUL084	Telecommunications Engineer/ Analyst – Intermediate	\$	81.00
FUL085	Telecommunications Engineer/ Analyst – Senior	\$	
FUL086	Telecommunications Manager - Multiple Incumbents	-	89.00
	Telecommunications Manager - Single Incumbent	\$	99.00
FUL087	Telecommunications Network Help Desk	\$	94.00
FUL088	Telecommunications Programmer/ Systems Analyst – Senior	\$	48.00
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FUL089	Telecommunications/Communications Integration Engineer	\$	73.00
FUL090	Test Engineer	\$	74.00
FUL091	UNIX Systems Administrator	\$	61.00
FUL092	Voice Communications Administrator	\$	68.00
FUL093	Voice Communications Manager - Planning & Implementation	\$	50.00
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FUL094	Voice Communications Technician	\$	57.00
FUL095		\$	68.00

FUL096	Web Content Analyst	\$ 54.00
FUL097	Web Designer	\$ 48.00
FUL098	Web Marketing Manager	\$ 40.00
FUL099	Web Operations Manager	\$ 73.00
FUL100	Web Project Manager	\$ 68.00
FUL101	Web Security Administrator	\$ 76.00
FUL102	Web Security Analyst	\$ 73.00
FUL103	Web Software Developer	\$ 75.00
FUL104	Web Technical Administrator	\$ 55.00
FUL105	Product Manager	\$ 224.00
FUL106	Technical Architect	\$ 234.00
FUL107	Interaction Designer / User Researcher / Usability Tester	\$ 162.00
FUL108	Writer / Content Designer / Content Strategist	\$ 145.00
FUL109	Visual Designer Category	\$ 135.00
FUL110	Frontend Web Developer	\$ 145.00
FUL111	Backend Web Developer	\$ 171.00
FUL112	DevOps Engineer	\$ 224.00
FUL113	Security Engineer	\$ 234.00
FUL114	Delivery Manager	\$ 180.00
FUL115	Agile Coach	\$ 239.00
FUL116	Business Analyst	\$ 157.00
FUL117	Digital Performance Engineer	\$ 168.00